

January 26, 2022

VIA HAND DELIVERY

Luly E. Massaro, Commission Clerk
Rhode Island Public Utilities Commission
89 Jefferson Boulevard
Warwick, RI 02888

**RE Docket 5189 - 2022 Annual Energy Efficiency Program Plan
Compliance - Updated Electric and Gas Tables**

Dear Ms. Massaro:

On behalf of The Narragansett Electric Company d/b/a National Grid (“National Grid” or the “Company”), enclosed please find an electronic version¹ of the Company’s compliance filing consistent with the directives issued by the Public Utilities Commission (“PUC) at an Open Meeting that occurred on January 25, 2022.

This compliance filing includes updated E-1 through E-10 tables and G-1 through G-10 tables.

Thank you for your attention to this filing. If you have any questions, please contact me at 401-784-7231.

Sincerely,



Andrew S. Marcaccio

cc: Docket 5189 Service List
Margaret Hogan, Esq.
John Bell, Division

¹ Per communication from Commission counsel on October 4, 2021, the Company is submitting an electronic version of this filing followed by six (6) hard copies filed with the Clerk within 24 hours of the electronic filing.

**Table E-1 - Compliance Filing
National Grid
Electric DSM Funding Sources in 2022 by Sector
\$(000)**

	Income Eligible Residential	Projections by Sector Non-Income Eligible Residential	Commercial & Industrial	Total
(1) Projected Budget (from E-2):	\$17,015.9	\$35,251.0	\$56,354.4	\$108,621.3
Sources of Other Funding:				
(2) Projected DSM Commitments at Year-End 2021:	\$0.0	\$0.0	\$0.0	\$0.0
(3) Projected Year-End 2021 Fund Balance and Interest:	(\$17.5)	(\$6,770.1)	\$13,236.9	\$6,449.3
(4) Projected FCM Net Revenue from ISO-NE:	\$479.2	\$5,690.2	\$8,083.2	\$14,252.7
(5) Total Other Funding:	\$461.7	(\$1,079.9)	\$21,320.1	\$20,702.0
(6) Customer Funding Required:	\$16,554.2	\$36,330.8	\$35,034.4	\$87,919.3
(7) Forecasted kWh Sales:	246,778,762	2,930,118,727	4,162,361,309	7,339,258,798
(8) Energy Efficiency Program charge per kWh, excluding uncollectible recovery:				\$0.01197
(9) Proposed SRP Opex Factor per kWh, excluding uncollectible recovery:				\$0.00000
(10) Total Proposed Energy Efficiency Charge per kWh, excluding uncollectible recovery:				\$0.01197
(11) Currently Effective Uncollectible Rate				1.30%
(12) Proposed Energy Efficiency Program Charge per kWh, including Uncollectible Recovery:				\$0.01212
(13) Currently Effective Energy Efficiency Program Charge per kwh				\$0.01113
(14) Proposed Adjustment to Reflect Fully Reconciling Funding Mechanism				\$0.00099

Notes:

- (1) Projected Budget from E-2 includes OER and EERMC costs allocated to each sector based on forecasted sales.
- (2) DSM Commitments are projects that are under construction with anticipated completion in 2022.
- (3) Fund balance projections include projected revenue and spend through year end with Income Eligible sector set to \$0 through projected subsidization from other sectors, minus commitments which are illustrated separately on line (2). The fund balance includes a \$124,135 credit from shareholder funds to the fund balance which the Company plans to make prior to February 1, 2022 based on the Company's response to PUC 5-4 part e. The fund balance also assumes a transfer of \$5,000,000 to the Rhode Island Infrastructure Bank (RIIB), approved in the 2021 Annual Plan, to be made in early 2022. Note that these funds have not yet been transferred to RIIB, however the Company anticipates, subject to PUC approval, transferring these funds given that the Company received a written request from RIIB on December 30, 2021, and is currently working with RIIB in order to ensure that all required documentation has been provided and is in order prior to completing the transfer.
- (4) The total projection of FCM revenue is allocated by kWh sales to each sector. FCM Revenue includes an estimated \$332,804 penalty. See prefiled testimony for additional details.
- (5) Line (2) + Line (3) + Line (4)
- (6) Line (1) - Line (5)
- (7) Per Company Forecast
- (8) See EERMC 2-14 attachment for calculation of rate.
- (9) Truncated to 5 decimal places
- (11) Proposed SRP Opex Factor is \$0.00000.
- (10) Line (8) + Line (9)
- (11) Uncollectible rate approved in Docket No 4770.
- (12) Line (10) ÷ (1-Line (11)), truncated to 5 decimal places
- (13) Currently Effective EE Charge includes System Reliability Factor and uncollectible recovery.
- (14) Line (12) - Line (13)

These rates are based on a 12 month rate. Due to extending the rate through January 31, 2022, the Company is proposing rates to account for this in Table E-1A. Please see the rates in that table.

**Table E-1A - Compliance Filing
National Grid
Calculation of Electric 11 Month Rate for February 1, 2022**

Impact of a 1 Month Delay in Changing Electric SBC

(1)	Amount Needed from Customer Funding	\$87,836,721
(2)	CY 2022 kWh Delivery Forecast	<u>7,339,258,798</u>
(3)	Base SBC	\$0.01196
(4)	Uncollectible Rate	<u>1.30%</u>
(5)	SBC Grossed Up for Uncollectibles	<u>\$0.01211</u>
(6)	January 2022 kWh Deliveries	628,396,744
(7)	Base SBC at Proposed Rate	<u>\$0.01196</u>
(8)	Proposed January SBC Revenue	\$7,515,625
(9)	Base SBC at Current Rate	<u>\$0.01099</u>
(10)	SBC Revenue at Current Rate	<u>\$6,906,080</u>
(11)	Shortfall in January 2022 SBC Revenue	<u>(\$609,545)</u>
(12)	CY 2022 Customer Funding Needed	\$87,836,721
(13)	January SBC Revenue at Current Rate	<u>\$6,906,080</u>
(14)	February-December 2022 Customer Funding Need	\$80,930,641
(15)	February-December 2022 kWh Delivery Forecast	6,710,862,054
(16)	SBC effective February 1, 2022	\$0.01205
(17)	Uncollectible Rate	<u>1.30%</u>
(18)	SBC Grossed Up for Uncollectibles	<u>\$0.01220</u>

87,836.7 per table E-1, line (6)

See EERMC 2-14 for original reference.

**Table E-2 - Compliance Filing
National Grid
2022 Electric Energy Efficiency Program Budget (\$000)**

	Program Planning & Administration	Marketing	Cost of services and product rebates/incentives provided to customers	Sales, Technical Assistance & Training	Evaluation & Market Research	Total Performance Incentive	Grand Total
Non-Income Eligible Residential							
Residential New Construction	\$92.6	\$23.6	\$800.9	\$504.3	\$195.6		\$1,617.0
ENERGY STAR® HVAC	\$104.3	\$279.6	\$3,734.7	\$486.2	\$79.7		\$4,684.4
EnergyWise	\$418.2	\$373.6	\$13,289.6	\$1,316.5	\$159.0		\$15,557.0
EnergyWise Multifamily	\$103.7	\$74.3	\$2,613.8	\$407.2	\$39.2		\$3,238.3
Residential Consumer Products	\$85.7	\$464.3	\$1,724.7	\$500.9	\$20.5		\$2,796.0
Home Energy Reports	\$55.9	\$13.1	\$0.0	\$2,551.5	\$18.6		\$2,639.1
Residential ConnectedSolutions	\$39.8	\$11.3	\$1,356.1	\$368.5	\$46.8		\$1,822.6
Energy Efficiency Education Programs	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0		\$0.0
Residential Pilots	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0		\$0.0
Community Based Initiatives - Residential	\$33.7	\$125.2	\$96.2	\$0.0	\$0.0		\$255.1
Comprehensive Marketing - Residential	\$1.3	\$246.7	\$0.0	\$0.0	\$0.0		\$247.9
Residential Performance Incentive	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
Subtotal - Non-Income Eligible Residential	\$935.3	\$1,611.8	\$23,615.9	\$6,135.0	\$559.4	\$0.0	\$32,857.4
Income Eligible Residential							
Single Family - Income Eligible Services	\$349.5	\$135.0	\$10,756.0	\$1,966.9	\$67.9		\$13,275.3
Income Eligible Multifamily	\$117.6	\$14.1	\$3,024.0	\$344.4	\$38.8		\$3,538.9
Income Eligible Performance Incentive	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
Subtotal - Income Eligible Residential	\$467.1	\$149.2	\$13,780.0	\$2,311.3	\$106.7	\$0.0	\$16,814.3
Commercial & Industrial							
Large Commercial New Construction	\$203.2	\$306.8	\$6,654.8	\$1,537.9	\$331.5		\$9,034.1
Large Commercial Retrofit	\$756.0	\$239.5	\$18,529.5	\$4,825.29	\$660.2		\$25,010.5
Small Business Direct Install	\$236.1	\$244.0	\$7,937.2	\$310.8	\$155.2		\$8,883.3
Commercial ConnectedSolutions	\$101.3	\$6.8	\$4,102.6	\$182.9	\$0.0		\$4,393.6
Commercial Pilots	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0		\$0.0
Community Based Initiatives - C&I	\$11.2	\$41.7	\$32.1	\$0.0	\$0.0		\$85.0
Finance Costs	\$0.0	\$0.0	\$2,000.0	\$0.0	\$0.0		\$2,000.0
Commercial Workforce Development	\$0.0	\$0.0	\$0.0	\$157.5	\$0.0		\$157.5
Commercial & Industrial Performance Incentive	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$3,390.2	\$3,390.2
Subtotal - Commercial & Industrial	\$1,307.9	\$838.8	\$39,256.1	\$7,014.4	\$1,146.9	\$3,390.2	\$52,954.2
Regulatory							
OER	\$1,494.2	\$0.0	\$0.0	\$0.0	\$0.0		\$1,494.2
EERMC	\$766.2	\$0.0	\$0.0	\$0.0	\$0.0		\$766.2
Rhode Island Infrastructure Bank	\$0.0	\$0.0	\$3,735.0	\$0.0	\$0.0		\$3,735.0
Subtotal - Regulatory	\$2,260.4	\$0.0	\$3,735.0	\$0.0	\$0.0	\$0.0	\$5,995.4
Grand Total	\$4,970.6	\$2,599.8	\$80,387.1	\$15,460.7	\$1,812.9	\$3,390.2	\$108,621.3

Notes:

- (1) 2022 Large Commercial Retrofit Commitments (\$000):
- (2) For more information on Finance Costs, please refer to Attachment 2, Section 9.
- (3) OER budget is equal to 3% of total collections from customers' Energy Efficiency Program Charge, times 60%, reduced by 3%. EERMC budget was set by the PUC on January 25, 2022 for a total between gas and electric of \$1,025,763.74.
- (4) Finance Costs are detailed in Table E-9. Finance Costs include an injection of \$2M into the Large C&I Revolving Loan Fund. Without this injection the Large C&I Revolving Loan Fund is projected to be negative by the end of 2022.
- (5) Demonstrations and Assessments budgets are included in specific program level budgets listed above. More information on Demonstration and Assessments descriptions, budgets, and which program level budget they are included in can be found in Attachment 8.
- (6) Based on the state's System Reliability and Least Cost procurement statute (amended in 2021), funds transferred to the Rhode Island Infrastructure Bank are now classified under Regulatory costs.

**Table E-3 - Compliance Filing
National Grid
Derivation of the 2022 Spending and Implementation Budgets (\$000)**

	Proposed 2022 Budget From E-2	Commitments	Regulatory Costs	Performance Incentive	Eligible Sector Spending Budget for Performance Incentive on E-8B	Implementation Expenses for Cost- Effectiveness on E-5
Non-Income Eligible Residential						
Residential New Construction	\$1,617.0					\$1,617.0
ENERGY STAR@ HVAC	\$4,684.4					\$4,684.4
EnergyWise	\$15,557.0					\$15,557.0
EnergyWise Multifamily	\$3,238.3					\$3,238.3
Residential Consumer Products	\$2,796.0					\$2,796.0
Home Energy Reports	\$2,639.1					\$2,639.1
Residential ConnectedSolutions	\$1,822.6					\$1,822.6
Energy Efficiency Education Programs	\$0.0					\$0.0
Residential Pilots	\$0.0					\$0.0
Community Based Initiatives - Residential	\$255.1					\$255.1
Comprehensive Marketing - Residential	\$247.9					\$247.9
Residential Performance Incentive	\$0.0			\$0.0		\$0.0
Subtotal - Non-Income Eligible Residential	\$32,857.4	\$0.0	\$0.0	\$0.0	\$31,009.9	\$32,857.4
Income Eligible Residential						
Single Family - Income Eligible Services	\$13,275.3					\$13,275.3
Income Eligible Multifamily	\$3,538.9					\$3,538.9
Income Eligible Performance Incentive	\$0.0			\$0.0		\$0.0
Subtotal - Income Eligible Residential	\$16,814.3	\$0.0	\$0.0	\$0.0	\$16,814.3	\$16,814.3
Commercial & Industrial						
Large Commercial New Construction	\$9,034.1	\$0.0				\$9,034.1
Large Commercial Retrofit	\$25,010.5	\$0.0				\$25,010.5
Small Business Direct Install	\$8,883.3	\$0.0				\$8,883.3
Commercial ConnectedSolutions	\$4,393.6					\$4,393.6
Commercial Pilots	\$0.0					\$0.0
Community Based Initiatives - C&I	\$85.0					\$85.0
Finance Costs	\$2,000.0					\$2,000.0
Commercial Workforce Development	\$157.5					\$157.5
Commercial & Industrial Performance Incentive	\$3,390.2			\$3,390.2		\$0.0
Subtotal - Commercial & Industrial	\$52,954.2	\$0.0	\$0.0	\$3,390.2	\$45,139.4	\$49,564.1
Regulatory						
OER	\$1,494.2		\$1,494.2			\$1,494.2
EERMC	\$766.2		\$766.2			\$766.2
Rhode Island Infrastructure Bank	\$3,735.0		\$3,735.0			\$3,735.0
Subtotal - Regulatory	\$5,995.4	\$0.0	\$5,995.4	\$0.0	\$0.0	\$5,995.4
Grand Total	\$108,621.3	\$0.0	\$5,995.4	\$3,390.2	\$92,963.6	\$105,231.1

Notes:

- (1) Eligible Sector Spending Budget = Total Budget from E-2 minus commitments, regulatory costs, pilots, assessments, Residential ConnectedSolutions, Commercial ConnectedSolutions, Performance Incentive
- (2) Eligible Sector Spending Budget does not include assessments, see Attachment 8 for assessments budgets.
- (3) Implementation Expenses = Total Budget from E-2 minus commitments and Performance Incentive.

**Table E-4 - Compliance Filing
National Grid
Proposed 2022 Budget Compared to Approved 2021 Budget (\$000)**

	Proposed Implementation Budget 2022	Approved Implementation Budget 2021	Difference
Non-Income Eligible Residential			
Residential New Construction	\$1,617.0	\$1,611.3	\$5.6
ENERGY STAR® HVAC	\$4,684.4	\$3,487.8	\$1,196.6
EnergyWise	\$15,557.0	\$15,692.2	-\$135.2
EnergyWise Multifamily	\$3,238.3	\$2,804.3	\$434.0
ENERGY STAR® Lighting	\$0.0	\$5,274.8	-\$5,274.8
Residential Consumer Products	\$2,796.0	\$2,681.2	\$114.8
Home Energy Reports	\$2,639.1	\$2,641.7	-\$2.5
Residential ConnectedSolutions	\$1,822.6	\$1,920.5	-\$97.9
Energy Efficiency Education Programs	\$0.0	\$40.0	-\$40.0
Residential Pilots	\$0.0	\$0.0	\$0.0
Community Based Initiatives - Residential	\$255.1	\$226.2	\$28.9
Comprehensive Marketing - Residential	\$247.9	\$332.7	-\$84.8
Subtotal - Non-Income Eligible Residential	\$32,857.4	\$36,712.7	-\$3,855.3
Income Eligible Residential			
Single Family - Income Eligible Services	\$13,275.3	\$12,846.1	\$429.2
Income Eligible Multifamily	\$3,538.9	\$3,549.0	-\$10.0
Subtotal - Income Eligible Residential	\$16,814.3	\$16,395.1	\$419.2
Commercial & Industrial			
Large Commercial New Construction	\$9,034.1	\$8,188.2	\$846.0
Large Commercial Retrofit	\$25,010.5	\$31,565.2	-\$6,554.7
Small Business Direct Install	\$8,883.3	\$8,883.6	-\$0.3
Commercial ConnectedSolutions	\$4,393.6	\$2,990.1	\$1,403.5
Community Based Initiatives - C&I	\$85.0	\$74.5	\$10.4
Commercial Pilots	\$0.0	\$0.0	\$0.0
Finance Costs	\$2,000.0	\$5,000.0	-\$3,000.0
Commercial Workforce Development	\$157.5	\$0.0	\$157.5
Subtotal Commercial & Industrial	\$49,564.1	\$56,701.6	-\$7,137.5
Regulatory			
EERMC	\$766.2	\$738.5	\$27.7
OER	\$1,494.2	\$738.5	\$755.6
Rhode Island Infrastructure Bank	\$3,735.0	\$0.0	\$3,735.0
Subtotal Regulatory	\$5,995.4	\$1,477.0	\$4,518.4
TOTAL IMPLEMENTATION BUDGET	\$105,231.1	\$111,286.3	-\$6,055.2
OTHER EXPENSE ITEMS			
Commitments	\$0.0	\$0.0	\$0.0
Company Incentive	\$3,390.2	\$5,500.0	-\$2,109.8
Subtotal - Other Expense Items	\$3,390.2	\$5,500.0	-\$2,109.8
TOTAL BUDGET	\$108,621.3	\$116,786.3	-\$8,165.1

Notes:

- (1) Program Implementation Budget excludes Commitments, Company Incentive; derived on Table E-3
- (2) Total Budget includes Implementation, Commitments; illustrated on Table E-3
- (3) The Energy Star® Lighting program year-over-year decrease is due to the phase out of the program in 2022.
- (4) In large part, the increased budget for the Large Commercial and Industrial New Construction program can be attributed to the proposed 13.3 MW CHP system, which accounts for approximately \$9,200,000 in incentives in the 2022 plan. The HVAC incentive budget also increased by approximately \$700,000 due to a 2,065,000 kWh increase in gross annual savings.
- (5) The Large Commercial Retrofit program decreased primarily due to roughly a \$5,400,000 reduction in lighting incentive due to lower anticipated volume as the market becomes increasingly saturated. The CHP budget also decreased approximately \$500,000 because there was a CHP retrofit in the 2021 plan but not 2022.
- (6) The increase in the 2022 Commercial and Industrial ConnectedSolutions program budget can be attributed to the higher participation in the Daily Dispatch demand response offering. In total, the customer incentive payments represent approximately 98% of the cost associated with this measure.
- (7) The Finance Cost decline is driven by a reallocation of \$5M in RIIB from this line to the RIIB line under regulatory due to the updated the Least Cost Procurement statute (amended in 2021).
- (8) The increase in allocation of funds to the OER is made consistent with the state's System Reliability and Least Cost procurement statute (amended in 2021), which provides that the Commission shall allocate an amount not to exceed three percent (3.0%) from authorized demand-side management gas and electric funds authorized.
- (9) The Rhode Island Infrastructure Bank addition is driven by a reallocation of \$5M in RIIB from the Finance Cost Line to the Rhode Island Infrastructure Bank line under the regulatory sector to comply with the Least Cost Procurement statute (amended in 2021).

**Table E-5 - Primary - Compliance Filing
National Grid
Calculation of 2022 Program Year Cost-Effectiveness
All Dollar Values in (\$000)**

	RI Test Benefit/ Cost¹	Total Benefit	Program Implementation Expenses²	Customer Contribution	Performance Incentive	¢/Lifetime kWh
Non-Income Eligible Residential						
Residential New Construction	1.96	\$4,232.1	\$1,617.0	\$547.2		14.5
ENERGY STAR® HVAC	2.24	\$14,630.8	\$4,684.4	\$1,848.5		8.4
EnergyWise	1.03	\$16,626.6	\$15,557.0	\$530.6		119.4
EnergyWise Multifamily	1.64	\$6,189.9	\$3,238.3	\$532.0		18.1
Home Energy Reports	2.05	\$5,401.4	\$2,639.1	\$0.0		9.8
Residential Consumer Products	2.21	\$9,713.3	\$2,796.0	\$1,606.6		9.3
Residential ConnectedSolutions	1.58	\$2,886.0	\$1,822.6	\$0.0		N/A
Energy Efficiency Education Programs			\$0.0			
Residential Pilots			\$0.0			
Community Based Initiatives - Residential			\$255.1			
Comprehensive Marketing - Residential			\$247.9			
Non-Income Eligible Residential SUBTOTAL	1.57	\$59,680.0	\$32,857.4	\$5,064.9	\$0.0	18.8
Income Eligible Residential						
Single Family - Income Eligible Services	1.94	\$25,758.0	\$13,275.3	\$0.0		34.5
Income Eligible Multifamily	2.36	\$8,368.1	\$3,538.9	\$0.0		14.6
Income Eligible Residential SUBTOTAL	2.03	\$34,126.2	\$16,814.3	\$0.0	\$0.0	26.8
Commercial & Industrial						
Large Commercial New Construction	3.50	\$34,249.9	\$9,034.1	\$742.5		5.1
Large Commercial Retrofit	2.20	\$72,910.7	\$25,010.5	\$8,064.5		10.6
Small Business Direct Install	1.17	\$12,596.2	\$8,883.3	\$1,923.1		16.8
Commercial ConnectedSolutions	2.42	\$10,621.2	\$4,393.6	\$0.0		N/A
Commercial Pilots			\$0.0			
Community Based Initiatives - C&I			\$85.0			
Finance Costs			\$2,000.0			
Commercial Workforce Development			\$157.5			
C&I SUBTOTAL	1.98	\$130,378.0	\$49,564.1	\$10,730.1	\$3,390.2	10.6
Regulatory						
OER			\$1,494.2			
EERMC			\$766.2			
Rhode Island Infrastructure Bank			\$3,735.0			
Regulatory SUBTOTAL			\$5,995.4			
TOTAL	1.77	\$224,184.2	\$105,231.1	\$15,795.0	\$3,390.2	14.5

Notes:

- (1) RI Test B/C Test = Total Benefits from Table E-6A / Program Implementation Expenses from Table E-3
Also includes effects of free-ridership and spillover.
- (2) For Implementation Expenses derivation, see Table E-3.

**Table E-5 - Secondary - Compliance Filing
National Grid
Calculation of 2022 Program Year Cost-Effectiveness with Economic Benefits Included
All Dollar Values in (\$000)**

	RI Test Benefit/ Cost ¹	Total Benefit	Program Implementation Expenses ²	Customer Contribution	Performance Incentive	¢/Lifetime kWh
Non-Income Eligible Residential						
Residential New Construction	3.12	\$6,754.6	\$1,617.0	\$547.2		14.5
ENERGY STAR® HVAC	3.37	\$22,032.1	\$4,684.4	\$1,848.5		8.4
EnergyWise	2.05	\$32,961.4	\$15,557.0	\$530.6		119.4
EnergyWise Multifamily	2.89	\$10,885.5	\$3,238.3	\$532.0		18.1
Home Energy Reports	3.16	\$8,330.9	\$2,639.1	\$0.0		9.8
Residential Consumer Products	3.25	\$14,326.7	\$2,796.0	\$1,606.6		9.3
Residential ConnectedSolutions	2.41	\$4,398.7	\$1,822.6	\$0.0		N/A
Energy Efficiency Education Programs			\$0.0			
Residential Pilots			\$0.0			
Community Based Initiatives - Residential			\$255.1			
Comprehensive Marketing - Residential			\$247.9			
Non-Income Eligible Residential SUBTOTAL	2.63	\$99,689.8	\$32,857.4	\$5,064.9	\$0.0	18.8
Income Eligible Residential						
Single Family - Income Eligible Services	2.90	\$38,502.3	\$13,275.3	\$0.0		34.5
Income Eligible Multifamily	3.66	\$12,968.8	\$3,538.9	\$0.0		14.6
Income Eligible Residential SUBTOTAL	3.06	\$51,471.1	\$16,814.3	\$0.0	\$0.0	26.8
Commercial & Industrial						
Large Commercial New Construction	6.04	\$59,003.5	\$9,034.1	\$742.5		5.1
Large Commercial Retrofit	6.20	\$204,966.4	\$25,010.5	\$8,064.5		10.6
Small Business Direct Install	2.42	\$26,187.6	\$8,883.3	\$1,923.1		16.8
Commercial ConnectedSolutions	4.61	\$20,243.2	\$4,393.6	\$0.0		N/A
Commercial Pilots			\$0.0			
Community Based Initiatives - C&I			\$85.0			
Finance Costs			\$2,000.0			
Commercial Workforce Development			\$157.5			
C&I SUBTOTAL	4.72	\$310,400.7	\$49,564.1	\$10,730.1	\$3,390.2	10.6
Regulatory						
OER			\$1,494.2			
EERMC			\$766.2			
Rhode Island Infrastructure Bank			\$3,735.0			
Regulatory SUBTOTAL			\$5,995.4			
TOTAL	3.65	\$461,561.6	\$105,231.1	\$15,795.0	\$3,390.2	14.5

Notes:

- (1) RI Test B/C Test = Total Benefits from Table E-6A including Economic Benefits / Program Implementation Expenses from Table E-3
Also includes effects of free-ridership and spillover.
- (2) For Implementation Expenses derivation, see Table E-3.

**Table E-5A - Compliance Filing
National Grid
Calculation of 2022 Program Year Cost-Effectiveness with TRC Test
All Dollar Values in (\$000)**

	TRC Benefit/ Cost ¹	Total Benefit	Program Implementation Expenses ²	Customer Contribution	Performance Incentive	¢/Lifetime kWh
Non-Income Eligible Residential						
Residential New Construction	1.56	\$3,371.2	\$1,617.0	\$547.2		14.5
ENERGY STAR® HVAC	1.64	\$10,738.0	\$4,684.4	\$1,848.5		8.4
EnergyWise	0.78	\$12,563.7	\$15,557.0	\$530.6		119.4
EnergyWise Multifamily	1.36	\$5,142.9	\$3,238.3	\$532.0		18.1
Home Energy Reports	1.38	\$3,642.0	\$2,639.1	\$0.0		9.8
Residential Consumer Products	1.59	\$7,013.3	\$2,796.0	\$1,606.6		9.3
Residential ConnectedSolutions	1.58	\$2,882.5	\$1,822.6	\$0.0		N/A
Energy Efficiency Education Programs			\$0.0			0.0
Residential Pilots			\$0.0			0.0
Community Based Initiatives - Residential			\$255.1			0.0
Comprehensive Marketing - Residential			\$247.9			0.0
Non-Income Eligible Residential SUBTOTAL	1.20	\$45,353.5	\$32,857.4	\$5,064.9	\$0.0	18.8
Income Eligible Residential						
Single Family - Income Eligible Services	1.66	\$22,034.6	\$13,275.3	\$0.0		34.5
Income Eligible Multifamily	2.03	\$7,186.3	\$3,538.9	\$0.0		14.6
Income Eligible Residential SUBTOTAL	1.74	\$29,220.8	\$16,814.3	\$0.0	\$0.0	26.8
Commercial & Industrial						
Large Commercial New Construction	2.69	\$26,252.5	\$9,034.1	\$742.5		5.1
Large Commercial Retrofit	1.74	\$57,710.4	\$25,010.5	\$8,064.5		10.6
Small Business Direct Install	0.87	\$9,355.6	\$8,883.3	\$1,923.1		16.8
Commercial ConnectedSolutions	2.42	\$10,621.2	\$4,393.6			
Commercial Pilots			\$0.0			
Community Based Initiatives - C&I			\$85.0			
Finance Costs			\$2,000.0			
Commercial Workforce Development			\$157.5			
C&I SUBTOTAL	1.63	\$103,939.8	\$49,564.1	\$10,730.1	\$3,390.2	10.6
Regulatory						
OER			\$1,494.2			
EERMC			\$766.2			
Rhode Island Infrastructure Bank			\$3,735.0			
Regulatory SUBTOTAL			\$5,995.4			
TOTAL	1.43	\$178,514.2	\$105,231.1	\$15,795.0	\$3,390.2	14.5

(1) TRC B/C Test omits societal benefits that are monetized in the RI Test, including non-embedded emissions (CO2 and Nox), and economic benefits Also includes effects of free-ridership and spillover.

(2) For Implementation Expenses derivation, see Table E-3.

Table E-6 - Compliance Filing
National Grid
Summary of 2022 Benefits by Program (Energy Efficiency Measures)

	Benefits (000's)																		
	Total	Total (Economic Excluded)	Capacity					Energy				Non Electric				Societal			
			Summer Generation	Capacity DRIPE	Trans	Dist	Reliability	Winter		Summer		Electric Energy DRIPE	Natural Gas	Oil	Other Resource	Non Resource	Carbon	NOx	Economic
Winter Peak	Winter Off Peak	Summer Peak	Summer Off Peak																
Non-Income Eligible Residential																			
Residential New Construction	\$6,755	\$4,232	\$48	\$43	\$94	\$93	\$1	\$369	\$485	\$144	\$110	\$289	\$0	\$325	\$1,304	\$66	\$833	\$28	\$2,522
ENERGY STAR® HVAC	\$22,032	\$14,631	\$182	\$159	\$357	\$353	\$2	\$2,398	\$2,987	\$221	\$185	\$1,833	\$55	\$1,639	-\$16	\$384	\$3,762	\$131	\$7,401
EnergyWise	\$32,961	\$16,627	\$148	\$162	\$291	\$288	\$2	\$267	\$273	\$178	\$157	\$314	\$0	\$8,984	\$233	\$1,267	\$3,605	\$458	\$16,335
EnergyWise Multifamily	\$10,885	\$6,190	\$94	\$79	\$182	\$180	\$1	\$595	\$742	\$106	\$89	\$464	\$0	\$632	\$48	\$1,931	\$1,004	\$43	\$4,696
Home Energy Reports	\$8,331	\$5,401	\$207	\$450	\$365	\$362	\$6	\$646	\$531	\$251	\$183	\$640	\$0	\$0	\$0	\$0	\$1,736	\$23	\$2,929
Residential Consumer Products	\$14,327	\$9,713	\$335	\$719	\$752	\$745	\$9	\$903	\$981	\$485	\$487	\$1,496	\$15	\$42	\$41	\$4	\$2,663	\$37	\$4,613
Non-Income Eligible Residential SUBTOTAL	\$95,291	\$56,794	\$1,014	\$1,612	\$2,041	\$2,022	\$21	\$5,178	\$5,999	\$1,385	\$1,210	\$5,036	\$70	\$11,622	\$1,609	\$3,652	\$13,603	\$720	\$38,497
Income Eligible Residential																			
Single Family - Income Eligible Services	\$38,502	\$25,758	\$275	\$253	\$541	\$536	\$3	\$874	\$967	\$410	\$423	\$801	\$77	\$5,282	\$386	\$11,208	\$3,428	\$295	\$12,744
Income Eligible Multifamily	\$12,969	\$8,368	\$22	\$19	\$43	\$43	\$0	\$789	\$1,008	\$30	\$25	\$554	\$0	\$642	\$53	\$3,958	\$1,137	\$45	\$4,601
Income Eligible Residential SUBTOTAL	\$51,471	\$34,126	\$297	\$271	\$584	\$578	\$3	\$1,663	\$1,975	\$440	\$448	\$1,354	\$77	\$5,924	\$439	\$15,165	\$4,565	\$340	\$17,345
Commercial & Industrial																			
Large Commercial New Construction	\$59,003	\$34,250	\$1,336	\$1,155	\$2,616	\$2,592	\$14	\$4,958	\$2,947	\$3,158	\$1,916	\$4,265	-\$257	\$0	\$4	\$1,548	\$7,898	\$100	\$24,754
Large Commercial Retrofit	\$204,966	\$72,911	\$2,776	\$5,530	\$6,172	\$6,115	\$69	\$6,592	\$4,728	\$4,490	\$2,800	\$9,914	-\$1,887	\$0	\$30	\$10,381	\$15,134	\$67	\$132,056
Small Business Direct Install	\$26,188	\$12,596	\$248	\$599	\$569	\$564	\$7	\$1,395	\$807	\$1,018	\$519	\$2,089	-\$400	\$0	\$0	\$1,942	\$3,226	\$14	\$13,591
C&I SUBTOTAL	\$290,157	\$119,757	\$4,360	\$7,284	\$9,357	\$9,271	\$91	\$12,944	\$8,482	\$8,666	\$5,235	\$16,268	-\$2,544	\$0	\$34	\$13,871	\$26,257	\$181	\$170,401
TOTAL	\$436,920	\$210,677	\$5,671	\$9,167	\$11,981	\$11,871	\$116	\$19,785	\$16,456	\$10,491	\$6,894	\$22,659	-\$2,397	\$17,547	\$2,083	\$32,688	\$44,426	\$1,241	\$226,243

Table E-6A - Compliance Filing
National Grid
Summary of 2022 Impacts by Program (Energy Efficiency Measures)

	Load Reduction in kW		Electric Energy Savings				Gas Saved		Oil Saved		Propane Saved		Total Net Savings (Electric, Gas, Oil, Propane)	
			MWh		MMBtu		MMBtu		MMBtu		MMBtu		MMBtu	
	Summer	Winter	Annual	Lifetime	Annual	Lifetime	Annual	Lifetime	Annual	Lifetime	Annual	Lifetime	Annual	Lifetime
Non-Income Eligible Residential														
Residential New Construction	74	259	867	14,947	2,957	50,998	-	-	521	13,016	1,321	33,013	4,798	97,027
ENERGY STAR® HVAC	240	1,063	4,620	77,717	15,762	265,169	395	6,012	4,463	67,405	(33)	(424)	20,587	338,161
EnergyWise	424	506	2,789	13,472	9,515	45,968	-	-	19,019	364,568	230	3,654	28,764	414,190
EnergyWise Multifamily	143	350	1,424	20,783	4,857	70,912	-	-	1,046	25,343	-	-	5,903	96,255
Home Energy Reports	3,692	5,706	26,852	26,852	91,619	91,619	-	-	-	-	-	-	91,619	91,619
Residential Consumer Products	1,118	826	6,885	47,554	23,491	162,256	84	1,672	85	1,683	25	370	23,685	165,981
Non-Income Eligible Residential SUBTOTAL	5,691	8,709	43,435	201,325	148,201	686,921	478	7,684	25,133	472,014	1,543	36,614	175,356	1,203,233
Income Eligible Residential														
Single Family - Income Eligible Services	480	501	3,314	38,506	11,306	131,383	958	11,562	11,178	214,399	63	1,121	23,505	358,466
Income Eligible Multifamily	49	445	1,538	24,309	5,247	82,943	-	-	1,239	25,915	-	-	6,486	108,858
Income Eligible Residential SUBTOTAL	529	946	4,851	62,816	16,553	214,327	958	11,562	12,417	240,314	63	1,121	29,991	467,324
Commercial & Industrial														
Large Commercial New Construction	1,745	1,295	12,589	192,343	42,953	656,274	(2,368)	(30,783)	-	-	-	-	40,585	625,491
Large Commercial Retrofit	8,490	7,200	41,132	312,931	140,342	1,067,722	(34,444)	(227,197)	-	-	-	-	105,899	840,524
Small Business Direct Install	904	722	9,976	64,394	34,037	219,711	(8,030)	(48,183)	-	-	-	-	26,007	171,528
C&I SUBTOTAL	11,139	9,216	63,696	569,668	217,332	1,943,707	(44,842)	(306,163)	-	-	-	-	172,490	1,637,544
TOTAL	17,359	18,872	111,983	833,808	382,086	2,844,954	(43,406)	(286,917)	37,550	712,329	1,607	37,735	377,837	3,308,102

Notes:
(1) Lifetime savings are equal to annual savings multiplied by the expected life of measures expected to be installed in each program.

Table E-6B - Compliance Filing
National Grid
Summary of 2022 Demand Response Benefits and Savings

	Benefits (000's)															Load Reduction (MW)	MWh Saved		
	Total	Total (Economic Excluded)	Summer Generation	Capacity DRIPE	Capacity			Energy					Non Electric Non Resource	Societal					
					Trans	Dist	Reliability	Winter		Summer		Energy DRIPE		Carbon	Economic				
								Peak	Off Peak	Peak	Off Peak								
Summer	Annual	Lifetime																	
Non-Income Eligible Residential																			
Residential Connected Solutions	\$4,399	\$2,884	\$238	\$976	\$729	\$722	\$214	\$0	\$0	\$0	\$0	\$0	\$0	\$3	\$1,513	7.4	59.4	59.4	
Commercial & Industrial																			
Commercial Connected Solutions	\$20,243	\$10,621	\$646	\$2,651	\$3,207	\$3,177	\$941	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$9,622	32.4	0.0	0.0	
TOTAL	\$24,642	\$13,505	\$884	\$3,627	\$3,936	\$3,899	\$1,154	\$0	\$0	\$0	\$0	\$0	\$0	\$3	\$11,135	39.8	59.4	59.4	

Table E-7 - Compliance Filing
National Grid
Comparison of 2022 and 2021 Goals and Tracking

	Proposed 2022 Goal		Proposed 2022 Tracking				Approved 2021				Difference			
	Lifetime Electric Energy Savings (MWh)	Active Demand Response (kW)	Annual Electric Energy Savings (MWh)	Annual Passive Summer Demand Savings (kW)	Total Net Lifetime Energy Savings (MMBtu)	Planned Unique Participants	Lifetime Electric Energy Savings (MWh)	Annual Electric Energy Savings (MWh)	Annual Passive Summer Demand Savings (kW)	Active Demand Response (kW)	Lifetime Electric Energy Savings (MWh)	Annual Electric Energy Savings (MWh)	Annual Passive Summer Demand Savings (kW)	Active Demand Response (kW)
Non-Income Eligible Residential														
Residential New Construction	14,947		867	74	97,027	462	18,088	979	66		-3,141	-113	8	
ENERGY STAR® HVAC	77,717		4,620	240	338,161	5,229	51,309	3,181	204		26,408	1,439	36	
EnergyWise	13,472		2,789	424	414,190	12,000	14,385	2,841	445		-913	-52	-20	
EnergyWise Multifamily	20,783		1,424	143	96,255	3,600	16,307	1,240	158		4,476	183	-15	
Home Energy Reports	26,852		26,852	3,692	91,619	323,248	26,852	26,852	3,692		0	0	0	
ENERGY STAR® Lighting	0		0	0	0	0	26,801	11,533	1,872		-26,801	-11,533	-1,872	
Residential Consumer Products	47,554		6,885	1,118	165,981	34,692	38,130	5,926	1,019		9,424	958	100	
Residential ConnectedSolutions		7,365				4,178			5,431			0		1,934
Non-Income Eligible Residential SUBTOTAL	201,325	7,365	43,435	5,691	1,203,233	383,409	191,872	52,553	7,455	5,431	9,453	-9,118	-1,764	1,934
Income Eligible Residential														
Single Family - Income Eligible Services	38,506		3,314	480	358,466	3,583	36,909	3,120	457		1,598	194	22	
Income Eligible Multifamily	24,309		1,538	49	108,858	3,600	22,545	1,554	70		1,764	-16	-21	
Income Eligible Residential SUBTOTAL	62,816		4,851	529	467,324	7,183	59,454	4,674	527		3,361	177	2	
Commercial & Industrial														
Large Commercial New Construction	192,343		12,589	1,745	625,491	96	189,441	11,837	1,856		2,902	752	-111	
Large Commercial Retrofit	312,931		41,132	8,490	840,524	2,239	744,562	59,496	11,648		-431,630	-18,364	-3,158	
Small Business Direct Install	64,394		9,976	904	171,528	490	105,134	9,696	1,134		-40,740	280	-230	
Commercial ConnectedSolutions		32,400				180			33,600					-1,200
C&I SUBTOTAL	569,668	32,400	63,696	11,139	1,637,544	3,005	1,039,136	81,029	14,638	33,600	-469,468	-17,332	-3,500	-1,200
TOTAL	833,808	39,765	111,983	17,359	3,308,102	393,597	1,290,462	138,256	22,621	39,031	-456,653	-26,273	-5,262	734

Notes:
(1) Planned 2022 participation takes into account net-to-gross and estimates unique participation by taking into account 2021 unique customer accounts to savings ratios. Therefore the number of planned measures may be more than the estimated participants shown. For measure counts please view the widget tables in Attachments 1 and 2. Table E-7 no longer includes a comparison to the previous year's participation. Due to the way unique participation is calculated it is not possible to compare year-over-year results.
(2) There are additional Low Income participants in Residential New Construction.
(3) A customer can participate in more than one program, for example, Residential Consumer Products and and Home Energy Reports, therefore the population reached can be more than 100%.

**Table E-8A - Compliance Filing
National Grid
2022 Electric PIM Benefits, Allocations, and Categorization (\$000)**

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)
	Capacity					Energy					Utility NEIs	Non Electric			Societal			
	Summer Generation	Capacity DRIPE	Transmission	Distribution	Reliability	Winter Peak Energy	Winter Off Peak Energy	Summer Peak Energy	Summer Off Peak Energy	Electric Energy DRIPE	Utility NEIs	Natural Gas and DRIPE	Oil and Oil DRIPE	Propane and Water	Non Resource	Carbon	NOx	Economic
Non-Income Eligible Residential																		
Residential New Construction	\$48	\$43	\$94	\$93	\$1	\$369	\$485	\$144	\$110	\$289	\$0	\$0	\$325	\$1,304	\$66	\$833	\$28	\$2,522
ENERGY STAR® HVAC	\$182	\$159	\$357	\$353	\$2	\$2,398	\$2,987	\$221	\$185	\$1,833	\$0	\$55	\$1,639	-\$16	\$384	\$3,762	\$131	\$7,401
EnergyWise	\$148	\$162	\$291	\$288	\$2	\$267	\$273	\$178	\$157	\$314	\$0	\$0	\$8,984	\$233	\$1,267	\$3,605	\$458	\$16,335
EnergyWise Multifamily	\$94	\$79	\$182	\$180	\$1	\$595	\$742	\$106	\$89	\$464	\$0	\$0	\$632	\$48	\$1,931	\$1,004	\$43	\$4,696
Home Energy Reports	\$207	\$450	\$365	\$362	\$6	\$646	\$531	\$251	\$183	\$640	\$0	\$0	\$0	\$0	\$0	\$1,736	\$23	\$2,929
Residential Consumer Products	\$335	\$719	\$752	\$745	\$9	\$903	\$981	\$485	\$487	\$1,496	\$0	\$15	\$42	\$41	\$4	\$2,663	\$37	\$4,613
Non-Income Eligible Residential SUBTOTAL	\$1,014	\$1,612	\$2,041	\$2,022	\$21	\$5,178	\$5,999	\$1,385	\$1,210	\$5,036	\$0	\$70	\$11,622	\$1,609	\$3,652	\$13,603	\$720	\$38,497
Income Eligible Residential																		
Single Family - Income Eligible Services	\$275	\$253	\$541	\$536	\$3	\$874	\$967	\$410	\$423	\$801	\$273	\$77	\$5,282	\$386	\$10,935	\$3,428	\$295	\$12,744
Income Eligible Multifamily	\$22	\$19	\$43	\$43	\$0	\$789	\$1,008	\$30	\$25	\$554	\$340	\$0	\$642	\$53	\$3,618	\$1,137	\$45	\$4,601
Income Eligible Residential SUBTOTAL	\$297	\$271	\$584	\$578	\$3	\$1,663	\$1,975	\$440	\$448	\$1,354	\$613	\$77	\$5,924	\$439	\$14,553	\$4,565	\$340	\$17,345
Commercial & Industrial																		
Large Commercial New Construction	\$1,336	\$1,155	\$2,616	\$2,592	\$14	\$4,988	\$2,947	\$3,158	\$1,916	\$4,265	\$0	-\$257	\$0	\$4	\$1,548	\$7,898	\$100	\$24,754
Large Commercial Retrofit	\$2,776	\$5,530	\$6,172	\$6,115	\$69	\$6,592	\$4,728	\$4,490	\$2,800	\$9,914	\$0	-\$1,887	\$0	\$30	\$10,381	\$15,134	\$67	\$132,056
Small Business Direct Install	\$248	\$599	\$569	\$564	\$7	\$1,395	\$807	\$1,018	\$519	\$2,089	\$0	\$400	\$0	\$0	\$1,942	\$3,226	\$14	\$13,591
C&I SUBTOTAL	\$4,360	\$7,284	\$9,357	\$9,271	\$91	\$12,944	\$8,482	\$8,666	\$5,235	\$16,268	\$0	-\$2,544	\$0	\$34	\$13,871	\$26,257	\$181	\$170,401
Included in PIM? (Y/N)	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	N	N	N	N
Percent Application in PIM	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	50%	50%	50%	0%	0%	0%	0%
Category	Electric Utility System Benefits	Electric Utility System Benefits	Electric Utility System Benefits	Electric Utility System Benefits	Electric Utility System Benefits	Electric Utility System Benefits	Electric Utility System Benefits	Electric Utility System Benefits	Electric Utility System Benefits	Electric Utility System Benefits	Electric Utility System Benefits	Resource Benefits	Resource Benefits	Resource Benefits	NA	NA	NA	NA

Notes
From 2022 Benefit-Cost Model, reflects benefits in Table E-6

**Table E-8B - Compliance Filing
National Grid
2022 Electric PIM Costs**

	(1)	(2)	(3)
	Costs (\$)		
	Eligible Spending Budget from Table E-3	Regulatory Costs	Total Costs for PIM Calculations
Non-Income Eligible Residential SUBTOTAL	\$31,009,943	\$1,998,466	\$33,008,409
Income Eligible Residential SUBTOTAL	\$16,814,274	\$1,998,466	\$18,812,739
C&I SUBTOTAL	\$45,139,395	\$1,998,466	\$47,137,861
Included in PIM? (Y/N)	Y	Y	Y

Notes

Source is Table E-2 and E-3. Regulatory costs allocated equally to each sector.

Table E-8C - Compliance Filing
National Grid
2022 Electric PIM and SQA

Sector PI = min(Payout Cap(i), [Actual Net Benefits* Design Payout Rate(g) * Payout Rate Adjustment(i)])

Sector	Planned Eligible Benefits		Planned Eligible Costs	Planned Eligible Net Benefits (4)	Design Performance Achievement	Design Performance Payout	Design Payout Rate	Design Payout Rate Thresholds	Payout Rate Adjustments	Payout Cap	Service Quality Metric
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)
	100% Electric Utility System Benefits	50% Resource Benefits	Eligible Spending Budget + Regulatory Costs	=(a)+(b)-(c)	Net benefits at which design incentive pool is achieved	Set by PUC	=(f)/(e)	Achievement levels at which the Payout Rate Adjustments in (i) will be applied—Set by PUC	Factor to adjust Design Payout Rate for if final program achievement fall within the ranges in (h)—Set by PUC	=1.25*(f)	Yes if (d) ≤ 0; No if (d) >0
										Cap on sector payout regardless of achievement in sector	See Service Quality Table
Non-Income Eligible Residential	\$25,517,341	\$6,650,701	\$33,008,409	-\$840,367	\$2,000,000	\$500,000	25.00%	a. Achievement < 25%	a. 0.0	\$625,000	Yes
Income Eligible Residential	\$8,227,538	\$3,220,366	\$18,812,739	-\$7,364,835	\$2,000,000	\$500,000	25.00%	b. 25% ≤ Achievement < 50% c. 50% ≤ Achievement < 75% d. 75% ≤ Achievement • Spending > Planned Eligible Costs	b. Achievement/100 + 0.1 c. Achievement/100 + 0.25 d. 1.0 • See Boundary Rules	\$625,000	Yes
Commercial & Industrial	\$81,958,194	-\$1,255,057	\$47,137,861	\$33,565,275	\$33,565,275	\$3,390,165	10.10%			\$4,237,706	No

Sector SQA = Maximum Service Adjustment(e) * Service Achievement Scaling Factor(g)

	Planned Eligible Benefits		Planned Eligible Costs	Design Service Achievement	Maximum Service Adjustment	Service Adjustment Thresholds	Service Achievement Scaling Factors	Achievement Cost Adjustment
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
	100% Electric Utility System Benefits	50% Resource Benefits	Eligible Spending Budget + Regulatory Costs	=(a)+(b)	Maximum downward adjustment to earned incentive—Set by PUC	Adjusted Achievement levels at which the Service Adjustments in (e) will be applied; adjustment is calculated in (h)	Factor to scale program achievement that fall within the ranges in (f)	Actual-cost-based adjustment factor applied to achievement. Result is if the difference between achievement and cost variances are greater than 5%, the Actual Achievement will be adjusted for use in
Non-Income Eligible Residential	\$25,517,341	\$6,650,701	\$33,008,409	\$32,168,042	\$938,438	a. Adjusted Achievement < 65%	a. 1	Performance Variance = "Actual Benefits" / "Design Achievement" - "Spending" / "Planned Eligible Cost"
Income Eligible Residential	\$8,227,538	\$3,220,366	\$18,812,739	\$11,447,904	\$443,300	b. 65% ≤ Adjusted Achievement < 95% c. 95% ≤ Adjusted Achievement	b. (95-Adjusted Achievement)/30 c. 0	If the absolute value (Performance Variance) ≤ 0.05, Then Adjusted Achievement = Actual Achievement Else Adjusted Achievement = Actual Achievement * (1+ Performance Variance)
Commercial & Industrial	\$81,958,194	-\$1,255,057	\$47,137,861	N/A	N/A			

**Table E-9 - Compliance Filing
National Grid
Revolving Loan Fund Projections**

Large C&I Revolving Loan Fund		Small Business Revolving Loan Fund	
(1) Total Loan Fund Deposits Through 2021	\$ 18,547,780	(1) Total Loan Fund Deposits Through 2021	\$ 3,303,570
(2) Current Loan Fund Balance	\$ 7,208,593	(2) Current Loan Fund Balance	\$ 2,743,078
<i>Loans Paid Year-To-Date</i>	\$ 3,356,693	<i>Loans Paid Year-To-Date</i>	\$ 570,365
<i>Repayments Year-To-Date</i>	\$ 2,946,562	<i>Repayments Year-To-Date</i>	\$ 606,588
(3) Projected Additional Loans by Year End 2021	\$ 5,770,777	(3) Projected Additional Loans by Year End 2021	\$ 510,000
(4) Projected Additional Repayments by Year End 2021	\$ 2,453,636	(4) Projected Additional Repayments by Year End 2021	\$ 275,529
(5) Projected Year End Loan Fund Balance 2021	\$ 3,891,451	(5) Projected Year End Loan Fund Balance 2021	\$ 2,508,608
(6) 2022 Fund Injection	\$ 2,000,000	(6) 2022 Fund Injection	\$ -
(7) Projected Loan Fund Balance, January 2022	\$ 5,891,451	(7) Projected Loan Fund Balance, January 2022	\$ 2,508,608
(8) Projected Repayments throughout 2022	\$ 3,881,906	(8) Projected Repayments throughout 2022	\$ 245,746
(9) Estimated Loans in 2022	\$ 8,928,261	(9) Estimated Loans in 2022	\$ 1,500,000
(10) Projected Year End Loan Fund Balance 2022	\$ 845,095	(10) Projected Year End Loan Fund Balance 2022	\$ 1,254,353
 Public Sector Revolving Loan Fund		 Efficient Buildings Fund	
(1) Total Loan Fund Deposits Through 2021	\$ 54,065	(1) Energy Efficiency Funds allocated to EBF through 202	\$ 27,087,113
(2) Current Loan Fund Balance	\$ 34,124	(2) Total EBF Loans Outstanding	\$ 55,075,045
<i>Funds returned to OER</i>	\$ -		
<i>Repayments Year-To-Date</i>	\$ 34,052		
(3) Projected Additional Loans by Year End	\$ -		
(4) Projected Additional Repayments by Year End	\$ 15,523		
(5) Projected Year End Loan Fund Balance 2021	\$ 49,647		
(6) 2022 Fund Injection	\$ -		
(7) Projected Loan Fund Balance, January 2022	\$ 49,647		
(8) Projected Repayments throughout 2022	\$ 2,945		
(9) Estimated Loans in 2022	\$ -		
(10) Projected Year End Loan Fund Balance 2022	\$ 52,592		

Notes

- (1) Funding injections since loan funds began. Net of any adjustments.
 - (2) Current Loan Fund Balance is through July 2021; it includes all loans and repayments made by July 2021. Public Sector Revolving Loan Fund reduced by transfers to RI PEP Incentives. EBF reports in terms of loans outstanding.
 - (3) Projected Loans from July to Year-End 2021 is estimated based on projects currently under construction that are anticipated to be paid out by year-end. It is difficult to project this amount accurately due to the fact that projects could be delayed by a month or two resulting in payment occurring in 2022 instead of 2021.
 - (4) Projected Repayments from June to Year-End 2021 is estimated based on the monthly average amount of repayments.
 - (5) Equal to (2) - (3) + (4).
 - (6) Fund injection of \$2M for the Large C&I Revolving Loan Fund is included under the Finance Cost line in table E-2.
 - (7) Equal to (5) + (6).
 - (8) Assumption based on monthly average repayments in 2021 over 12 month period; repayments accumulate over time and may vary widely.
 - (9) Amount projected to be lent to customers in 2022
 - (10) Equal to (7) + (8) - (9).
- Efficient Buildings Fund - The 2022 Annual Plan only includes two values for EBF: 1) The Energy Efficiency Funds allocated to EBF through 2021 and also assumes that the \$5M allocated to EBF for 2021 will be transferred to RIIB in 2021. 2) Total EBF Loans Outstanding as of July 2021. Additional information is not available because RIIB has informed the Company that,
- (11) commencing with the 2022 Plan, it will not be providing forward looking projections to the Company regarding EBF. The Company is therefore unable to provide any future projections in the 2022 Annual Plan regarding EBF. The state's System Reliability and Least Cost procurement statute (amended in 2021) directs that \$5M shall be transferred to RIIB. However, RIIB has not informed the Company the statutory \$5M transfer to RIIB in 2022 will go to EBF.

Table E-10 - Compliance Filing
National Grid
Rhode Island Electric Energy Efficiency 2003 - 2022
\$(000)

Electric	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013⁽⁴⁾	2014	2015	2016	2017	2018	2019	2020	2021⁽⁵⁾	2022⁽⁶⁾
Energy Efficiency Budget (\$Million) ⁽¹⁾	\$23.1	\$22.6	\$23.1	\$22.4	\$22.5	\$21.0	\$32.4	\$37.6	\$59.2	\$61.4	\$77.5	\$87.0	\$86.6	\$87.5	\$94.6	\$94.6	\$107.5	\$111.1	\$116.8	\$108.6
Spending Budget (\$Million) ⁽²⁾	\$16.3	\$15.8	\$17.6	\$16.5	\$16.4	\$14.7	\$23.5	\$28.8	\$45.3	\$55.3	\$64.8	\$80.6	\$77.3	\$77.6	\$88.5	\$88.7	\$98.1	\$101.1	\$104.8	\$93.0
Actual Expenditures (\$Million) ⁽³⁾	\$22.8	\$19.5	\$23.4	\$23.7	\$21.9	\$19.2	\$31.7	\$29.7	\$40.0	\$50.7	\$72.9	\$85.3	\$87.4	\$78.4	\$94.8	\$93.0	\$100.7	\$88.2		
Incentive Percentage ⁽¹⁰⁾	4.4%	4.4%	4.4%	4.4%	4.4%	4.4%	4.4%	4.4%	4.4%	4.4%	5.0%	5.0%	5.0%	5.0%	5.0%	5.0%	5.0%	5.0%	N/A	N/A
Target Incentive ⁽¹¹⁾	\$712,557	\$781,959	\$774,689	\$726,627	\$723,000	\$647,689	\$1,035,943	\$1,267,043	\$1,992,513	\$2,434,131	\$3,240,747	\$4,032,000	\$3,867,400	\$3,878,087	\$4,425,528	\$4,436,022	\$4,905,009	\$5,054,448	\$5,500,000	\$3,390,165
Earned Incentive	\$712,557	\$604,876	\$795,648	\$760,623	\$716,075	\$675,282	\$1,085,888	\$1,333,996	\$1,929,273	\$2,469,411	\$2,997,681	\$4,223,321	\$4,533,360	\$4,128,034	\$4,829,847	\$4,940,402	\$3,290,237	\$3,242,675		
Annual Summer Demand kW Savings Goal Achieved (%)				106%	106%	113%	142%	78%	71%	83%	114%	78%	112%	101%	103%	116%	98%	79%		
Annual MWh Energy Savings Goal Achieved (%)				111%	102%	111%	115%	107%	94%	93%	99%	105%	115%	107%	115%	110%	98%	88%		
Energy Efficiency Program Charge (\$/kWh) ⁽⁷⁾	\$0.00200	\$0.00200	\$0.00200	\$0.00200	\$0.00200	\$0.00200	\$0.00320	\$0.00320	\$0.00526	\$0.00592	\$0.00876	\$0.00911	\$0.00953	\$0.01077	\$0.01124	\$0.00972	\$0.01121	\$0.01323	\$0.01113	\$0.01212
Annual Cost to 500 kWh/month Residential Customer w/o tax ⁽⁸⁾	\$12.00	\$12.00	\$12.00	\$12.00	\$12.00	\$12.00	\$19.20	\$19.20	\$31.56	\$35.52	\$52.56	\$54.66	\$57.18	\$64.62	\$67.44	\$58.32	\$67.26	\$79.38	\$66.78	\$72.72
Annual Cost to 500 kWh/month Residential Customer w/ tax ⁽⁹⁾	\$12.50	\$12.50	\$12.50	\$12.50	\$12.50	\$12.50	\$20.00	\$20.00	\$32.88	\$37.00	\$54.75	\$56.94	\$59.56	\$67.31	\$70.25	\$60.75	\$70.06	\$82.69	\$69.56	\$75.75

Notes:

- (1) Energy Efficiency Budget includes total expenditures and commitments. Includes all demand side management program-related expenses, including rebates, administration and general expenses, evaluation, commitments for future years and Company incentive.
- (2) Prior to 2017, Spending Budget Eligible for Shareholder Incentive includes: Implementation, Administration, General, and Evaluation Expenses; excludes EERMC and OER Costs, Commitments, Copays, and Outside Finance Costs. Beginning in 2017, Outside Finance Costs were also included. Beginning in 2018 Pilot expenses were also excluded. Beginning in 2019 ConnectedSolutions expenses and assessments were also excluded.
- (3) Actual Expenditures is actual spend during calendar year. Includes expenditures and commitments. Includes all demand side management program-related expenses, including rebates, administration and general expenses, evaluation, commitments for future years and Company incentive.
- (4) In the Company's gas and electric rate cases in docket 4323, the PUC approved the uncollectibles gross-up in the electric EE Program Charge effective February 1, 2013, and a new rate applicable to the gross-up of the gas EE Program Charge, effective February 1, 2013.
- (5) 2021 values are planned.
- (6) 2022 values are proposed.
- (7) Beginning in 2012, the EE Program Charge includes the System Reliability Factor. It does not include the \$0.0003 renewables per RI General Laws §39-2-1.2 and Order #19608, which appears on customer bills.
- (8) Reflects the annual cost excluding Gross Earnings Tax.
- (9) Reflects the annual cost including Gross Earnings Tax.
- (10) Incentive percentage not applicable for 2021 due to new performance incentive mechanism developed for the 2021 Annual Plan. See Section 11 of the Main Text of the 2022 Annual Plan for additional details.
- (11) Target incentive is calculated in the same way as in 2021 in order to provide a more accurate estimate of the energy efficiency surcharge.

**Table G-1 - Compliance Filing
National Grid
Gas DSM Funding Sources in 2022 by Sector
\$(000)**

	<u>Projections by Sector</u>			Total
	Income Eligible Residential	Non-Income Eligible Residential	Commercial & Industrial	
(1) Projected Budget (from G-2):	\$9,409.4	\$15,903.3	\$11,573.0	\$36,885.8
Sources of Other Funding:				
(2) Projected Year-End 2021 Fund Balance and Interest:	(\$12.4)	(\$8,944.4)	\$2,859.3	(\$6,097.4)
(3) Total Other Funding:	(\$12.4)	(\$8,944.4)	\$2,859.3	(\$6,097.4)
(4) Customer Funding Required:	\$9,421.8	\$24,847.7	\$8,713.7	\$42,983.2
(5) Forecasted Firm Dth Volume	1,685,277	18,876,534	19,843,867	40,405,678
(6) Forecasted Non Firm Dth Volume			2,278,545	2,278,545
(7) Less: Exempt DG Customers			(1,244,516)	(1,244,516)
(8) Forecasted Dth Volume:	1,685,277	18,876,534	20,877,896	41,439,707
Average Energy Efficiency Program Charge per Dth				
(9) excluding Uncollectible Recovery:				\$1.037
(10) Proposed Energy Efficiency Program Charge per Dth excluding Uncollectible Recovery	\$1.247	\$1.247	\$0.830	
(11) Currently Effective Uncollectible Rate	<u>1.91%</u>	<u>1.91%</u>	<u>1.91%</u>	
(12) Proposed Energy Efficiency Program Charge per Dth, including Uncollectible Recovery:	\$1.271	\$1.271	\$0.846	
(13) Currently Effective Energy Efficiency Program Charge per Dth	\$0.871	\$0.871	\$0.596	
(14) Adjustment to Reflect Fully Reconciling Funding Mechanism	\$0.400	\$0.400	\$0.250	

Notes

(1) Projected Budget from G-2 includes OER and EERMC costs allocated to each sector based on forecasted volume.

(2) Fund Balance projections include projected revenue and spend through year-end with Residential and C&I sector subsidies applied to Income Eligible as detailed in the 2022 EE Plan Table G-1.

(10) The proposed EE program charges allow for the use of collections from one sector to fund energy efficiency services in other sectors that would otherwise not be supported with the proposed collection rates. The C&I charge includes collection of \$8.11 million of which \$4.14 million will be allocated to the low income sector and \$3.97 million to the residential sector. See EERMC 2-14 attachment for calculation of rate.

(11) Uncollectible rate approved in Docket No. 4770.

These rates are based on a 12 month rate. Due to extending the rate through January 31, 2022, the Company is proposing rates to account for this in Table G-1A. Please see the rates in that table.

**Table G-1A - Compliance Filing
National Grid
Calculation of Gas 11 Month Rate for February 1, 2022**

Impact of a 1 Month Delay in Changing Gas SBC				
		<u>Residential</u>	<u>C&I</u>	<u>Total</u>
		(a)	(b)	(c)
(1)	Amount Needed from Customer Funding	\$25,648,583	\$17,334,617	\$42,983,200
(2)	CY 2022 Dkth Delivery Forecast	<u>20,561,811</u>	<u>20,877,896</u>	41,439,707
(3)	Base SBC	\$1.247	\$0.830	
(4)	Uncollectible Rate	<u>1.91%</u>	<u>1.91%</u>	
(5)	SBC Grossed Up for Uncollectibles	<u>\$1.271</u>	<u>\$0.846</u>	
(6)	January 2022 Dkth Deliveries	3,486,313	2,858,807	6,345,120
(7)	Base SBC at Proposed Rate	<u>\$1.247</u>	<u>\$0.830</u>	
(8)	Proposed January SBC Revenue	\$4,348,790	\$2,373,627	\$6,722,417
(9)	Base SBC at Current Rate	<u>\$0.854</u>	<u>\$0.584</u>	
(10)	January SBC Revenue at Current Rate	<u>\$2,977,311</u>	<u>\$1,669,543</u>	<u>\$4,646,854</u>
(11)	Shortfall in January 2022 SBC Revenue	<u>(\$1,371,479)</u>	<u>(\$704,084)</u>	<u>(\$2,075,563)</u>
(12)	CY 2022 Customer Funding Needed	\$25,648,583	\$17,334,617	\$42,983,200
(13)	January SBC Revenue at Current Rate	<u>\$2,977,311</u>	<u>\$1,669,543</u>	<u>\$4,646,854</u>
(14)	February-December 2022 Customer Funding Needed	\$22,671,272	\$15,665,074	\$38,336,346
(15)	February-December 2022 Dkth Delivery Forecast	17,075,498	18,019,086	35,094,584
(16)	SBC effective February 1, 2022	\$1.3277	\$0.8693	
(17)	Uncollectible Rate	<u>1.91%</u>	<u>1.91%</u>	
(18)	SBC Grossed Up for Uncollectibles	<u>\$1.353</u>	<u>\$0.886</u>	

See EERMC 2-14 for original reference.

**Table G-2 - Compliance Filing
National Grid
2022 Gas Energy Efficiency Program Budget (\$000)**

	Program Planning and Administration	Marketing	Cost of services and product rebates/incentives provided to customers	Sales, Technical Assistance and Training	Evaluation & Market Research	Performance Incentive	Grand Total
Non-Income Eligible Residential:							
ENERGY STAR® HVAC	\$113.6	\$206.9	\$3,058.9	\$238.7	\$32.5	\$0.0	\$3,650.5
EnergyWise	\$199.9	\$71.1	\$7,037.7	\$1,173.3	\$93.0	\$0.0	\$8,575.0
EnergyWise Multifamily	\$48.4	\$55.5	\$1,216.0	\$154.3	\$14.4	\$0.0	\$1,488.6
Home Energy Reports	\$9.7	\$0.0	\$0.0	\$429.1	\$2.7	\$0.0	\$441.5
Residential Pilots	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
Residential New Construction	\$30.2	\$2.1	\$332.2	\$115.2	\$86.8	\$0.0	\$566.4
Comprehensive Marketing - Residential	\$0.1	\$68.0	\$0.0	\$0.0	\$0.0	\$0.0	\$68.0
Community Based Initiatives - Residential	\$11.2	\$41.7	\$32.1	\$0.0	\$0.0	\$0.0	\$85.0
Residential Performance Incentive	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
Subtotal - Non-Income Eligible Residential	\$413.0	\$445.2	\$11,676.8	\$2,110.6	\$229.3	\$0.0	\$14,875.0
Income Eligible Residential:							
Single Family - Income Eligible Services	\$134.3	\$25.0	\$5,016.4	\$1,168.8	\$25.6	\$0.0	\$6,370.0
Income Eligible Multifamily	\$72.5	\$8.4	\$2,474.5	\$364.2	\$27.9	\$0.0	\$2,947.5
Income Eligible Performance Incentive	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
Subtotal - Income Eligible Residential	\$206.8	\$33.4	\$7,490.9	\$1,533.0	\$53.5	\$0.0	\$9,317.6
Commercial & Industrial							
Large Commercial New Construction	\$118.5	\$152.1	\$1,636.0	\$1,063.5	\$170.8	\$0.0	\$3,140.9
Large Commercial Retrofit	\$206.4	\$261.9	\$2,543.0	\$1,535.2	\$125.6	\$0.0	\$4,672.1
Small Business Direct Install	\$5.8	\$31.1	\$269.9	\$44.5	\$2.8	\$0.0	\$354.1
Commercial & Industrial Multifamily	\$26.4	\$25.9	\$756.0	\$142.4	\$6.3	\$0.0	\$957.0
Commercial Pilots	\$0.0	\$7.5	\$178.3	\$30.0	\$0.0	\$0.0	\$215.8
Finance Costs	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
Community Based Initiatives - C&I	\$3.7	\$13.9	\$10.7	\$0.0	\$0.0	\$0.0	\$28.3
Commercial Workforce Development	\$0.0	\$0.0	\$0.0	\$67.5	\$0.0	\$0.0	\$67.5
Commercial & Industrial Performance Incentive	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$1,000.0	\$1,000.0
Subtotal - Commercial & Industrial	\$360.8	\$492.4	\$5,393.9	\$2,883.2	\$305.5	\$1,000.0	\$10,435.7
Regulatory							
EERMC	\$259.5	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$259.5
OER	\$732.9	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$732.9
Rhode Island Infrastructure Bank	\$0.0	\$0.0	\$1,265.0	\$0.0	\$0.0	\$0.0	\$1,265.0
Subtotal - Regulatory	\$992.5	\$0.0	\$1,265.0	\$0.0	\$0.0	\$0.0	\$2,257.5
Grand Total	\$1,973.1	\$971.0	\$25,826.6	\$6,526.8	\$588.3	\$1,000.0	\$36,885.8

Notes:

- (1) OER budget is equal to 3% of total collections from customers' Energy Efficiency Program Charge, times 60%, reduced by 3%. EERMC budget was set by the PUC on January 25, 2022 for a total between gas and electric of \$1,025,763. 25.3% of that total has been allocated to the gas budget, in accordance with the proportions of the gas and electric budget.
- (2) Demonstrations and Assessments are included in specific program level budgets listed above. More information on Demonstration and Assessments descriptions, budgets, and which program level budget they are included in can be found in Attachment 8.
- (3) Based on the state's System Reliability and Least Cost procurement statute (amended in 2021), funds transferred to the Rhode Island Infrastructure Bank are now classified under Regulatory costs.

**Table G-3 - Compliance Filing
National Grid
Derivation of the 2022 Spending & Implementation Budgets (\$000)**

	Proposed 2022 Budget From G-2 (\$000)	Outside Finance and Stakeholder Oversight Costs (\$000)	Performance Incentive (\$000)	Eligible Sector Spending Budget for Performance Incentive on G-9 (\$000) ¹	Implementation Expenses for Cost-Effectiveness on G-5 (\$000) ²
Non-Income Eligible Residential					
ENERGY STAR® HVAC	\$3,650.5				\$3,650.5
EnergyWise	\$8,575.0				\$8,575.0
EnergyWise Multifamily	\$1,488.6				\$1,488.6
Home Energy Reports	\$441.5				\$441.5
Residential Pilots	\$0.0				\$0.0
Residential New Construction	\$566.4				\$566.4
Comprehensive Marketing - Residential	\$68.0				\$68.0
Community Based Initiatives - Residential	\$85.0				\$85.0
Residential Performance Incentive	\$0.0		\$0.0		\$0.0
Subtotal - Non-Income Eligible Residential	\$14,875.0	\$0.0	\$0.0	\$14,875.0	\$14,875.0
Income Eligible Residential					
Single Family - Income Eligible Services	\$6,370.0				\$6,370.0
Income Eligible Multifamily	\$2,947.5				\$2,947.5
Income Eligible Performance Incentive	\$0.0		\$0.0		\$0.0
Subtotal - Income Eligible Residential	\$9,317.6	\$0.0	\$0.0	\$9,317.6	\$9,317.6
Commercial & Industrial					
Large Commercial New Construction	\$3,140.9				\$3,140.9
Large Commercial Retrofit	\$4,672.1				\$4,672.1
Small Business Direct Install	\$354.1				\$354.1
Commercial & Industrial Multifamily	\$957.0				\$957.0
Commercial Pilots	\$215.8				\$215.8
Finance Costs	\$0.0				\$0.0
Community Based Initiatives - C&I	\$28.3				\$28.3
Commercial Workforce Development	\$67.5				\$67.5
Commercial & Industrial Performance Incentive	\$1,000.0		\$1,000.0		\$0.0
Subtotal - Commercial & Industrial	\$10,435.7	\$0.0	\$1,000.0	\$9,188.9	\$9,435.7
Regulatory					
EERMC	\$259.5	\$259.5			\$259.5
OER	\$732.9	\$732.9			\$732.9
Rhode Island Infrastructure Bank	\$1,265.0	\$1,265.0			\$1,265.0
Subtotal - Regulatory	\$2,257.5	\$2,257.5			\$2,257.5
Grand Total	\$36,885.8	\$2,257.5	\$1,000.0	\$33,381.5	\$35,885.8

Notes:

- (1) Eligible Sector Spending Budget for Performance Incentive = Budget from G-2 minus Regulatory Costs, Pilots, Assessments, and Performance Incentive.
- (2) Implementation Expenses = Budget from G-2 minus Performance Incentive.
- (3) Eligible Sector Spending Budget does not include assessments, see Attachment 8 for assessments budgets.

**Table G-4 - Compliance Filing
National Grid
Proposed 2022 Budget Compared to Approved 2021 Budget (\$000)**

	Proposed Budget 2022 from G-2	2021 Approved Gas Budget	Difference
Non-Income Eligible Residential			
ENERGY STAR® HVAC	\$3,650.5	\$3,673.0	-\$22.5
EnergyWise	\$8,575.0	\$8,117.6	\$457.4
EnergyWise Multifamily	\$1,488.6	\$1,491.6	-\$2.9
Home Energy Reports	\$441.5	\$450.9	-\$9.4
Residential Pilots	\$0.0	\$0.0	\$0.0
Residential New Construction	\$566.4	\$674.8	-\$108.5
Comprehensive Marketing - Residential	\$68.0	\$64.8	\$3.3
Community Based Initiatives - Residential	\$85.0	\$75.8	\$9.1
Residential Performance Incentive	\$0.0	\$595.0	-\$595.0
Subtotal - Non-Income Eligible Residential	\$14,875.0	\$15,143.5	-\$268.5
Income Eligible Residential			
Single Family - Income Eligible Services	\$6,370.0	\$5,952.3	\$417.7
Income Eligible Multifamily	\$2,947.5	\$3,009.4	-\$61.9
Income Eligible Performance Incentive	\$0.0	\$425.0	-\$425.0
Subtotal - Income Eligible Residential	\$9,317.6	\$9,386.8	-\$69.2
Commercial & Industrial			
Large Commercial New Construction	\$3,140.9	\$2,634.2	\$506.7
Large Commercial Retrofit	\$4,672.1	\$5,054.1	-\$382.0
Small Business Direct Install	\$354.1	\$332.7	\$21.4
Commercial & Industrial Multifamily	\$957.0	\$953.2	\$3.8
Commercial Pilots	\$215.8	\$215.8	\$0.0
Finance Costs	\$0.0	\$0.0	\$0.0
Community Based Initiatives - C&I	\$28.3	\$24.8	\$3.5
Commercial Workforce Development	\$67.5	\$0.0	\$67.5
Commercial & Industrial Performance Incentive	\$1,000.0	\$680.0	\$320.0
Subtotal Commercial & Industrial	\$10,435.7	\$9,894.8	\$540.9
Regulatory			
EERMC	\$259.5	\$275.1	-\$15.5
OER	\$732.9	\$275.1	\$457.9
Rhode Island Infrastructure Bank	\$1,265.0	\$0.0	\$1,265.0
Subtotal Regulatory	\$2,257.5	\$550.1	\$1,707.3
TOTAL BUDGET	\$36,885.8	\$34,975.2	\$1,910.6

Notes:

- (1) Program Implementation Budget excludes Commitments, Company Incentive; derived on Table G-3
- (2) Total Budget includes Implementation, Commitments; illustrated on Table G-3
- (3) Performance Incentive is allocated to the C&I Sector Consistent with the final PIM approved in Docket 5076.

**Table G-5 - Primary - Compliance Filing
National Grid
Calculation of 2022 Program Year Cost-Effectiveness
All Dollar Values in (\$000)**

	Rhode Island Benefit/ Cost	Total Benefit	Program Implementation Expenses	Customer Contribution	Performance Incentive	\$/Lifetime MMBtu
Non-Income Eligible Residential						
Energy Star® HVAC	1.00	\$7,646.0	\$3,732.5	\$3,892.9		\$17.34
EnergyWise	1.13	\$10,489.0	\$8,645.9	\$670.2		\$19.47
EnergyWise MultiFamily	3.45	\$6,317.2	\$1,489.2	\$344.0		\$12.46
Home Energy Reports	3.87	\$1,712.1	\$441.8	\$0.0		\$4.72
Residential New Construction	1.62	\$1,550.7	\$513.2	\$447.0		\$14.79
Comprehensive Marketing - Residential			\$68.0			
Community Based Initiatives - Residential			\$85.0			
Residential Pilots			\$0.0			
Non-Income Eligible Residential Subtotal	1.36	\$27,715.0	\$14,975.5	\$5,354.1	\$0.0	\$16.61
Income Eligible Residential						
Single Family - Income Eligible Services	2.04	\$12,986.8	\$6,371.8	\$0.0		\$29.12
Income Eligible Multifamily	5.98	\$17,620.5	\$2,948.9	\$0.0		\$10.80
Income Eligible Residential Subtotal	3.28	\$30,607.3	\$9,320.7	\$0.0	\$0.0	\$18.95
Large Commercial & Industrial						
Large Commercial New Construction	5.52	\$18,944.5	\$3,186.6	\$243.0		\$4.35
Large Commercial Retrofit	5.20	\$38,996.5	\$4,696.3	\$2,810.2		\$5.63
Small Business Direct Install	3.95	\$1,686.1	\$355.9	\$71.3		\$4.66
Commercial & Industrial Multifamily	5.86	\$6,099.2	\$957.3	\$84.0		\$7.94
Commercial Pilots			\$215.8			
Community Based Initiatives - C&I			\$28.3			
Finance Costs			\$0.0			
Commercial Workforce Development			\$67.5			
Commercial & Industrial Subtotal	4.79	\$65,726.4	\$9,507.6	\$3,208.6	\$1,000.0	\$5.42
Regulatory						
EERMC			\$259.5			
OER			\$732.9			
Rhode Island Infrastructure Bank			\$1,265.0			
Regulatory Subtotal			\$2,257.5			
Grand Total	2.72	\$124,048.7	\$36,061.3	\$8,562.7	\$1,000.0	\$10.99

Notes:

- (1) RI Test B/C Test = Total Benefits from Table G-6 excluding Economic Benefits / Program Implementation Expenses from Table G-3. Also includes effects of free-ridership and spillover.
- (2) For Implementation Expenses derivation, see Table G-3.

Table G-5 - Secondary - Compliance Filing
National Grid
Calculation of 2022 Program Year Cost-Effectiveness with Economic Benefits Included
All Dollar Values in (\$000)

	Rhode Island Benefit/ Cost	Total Benefit	Program Implementation Expenses	Customer Contribution	Performance Incentive	\$/Lifetime MMBtu
Non-Income Eligible Residential						
Energy Star® HVAC	1.48	\$11,266.5	\$3,732.5	\$3,892.9		\$17.34
EnergyWise	2.13	\$19,826.7	\$8,645.9	\$670.2		\$19.47
EnergyWise MultiFamily	4.83	\$8,848.8	\$1,489.2	\$344.0		\$12.46
Home Energy Reports	4.99	\$2,206.9	\$441.8	\$0.0		\$4.72
Residential New Construction	1.80	\$1,725.1	\$513.2	\$447.0		\$14.79
Comprehensive Marketing - Residential			\$68.0			
Community Based Initiatives - Residential			\$85.0			
Residential Pilots			\$0.0			
Non-Income Eligible Residential Subtotal	2.16	\$43,874.0	\$14,975.5	\$5,354.1	\$0.0	\$16.61
Income Eligible Residential						
Single Family - Income Eligible Services	3.09	\$19,677.2	\$6,371.8	\$0.0		\$29.12
Income Eligible Multifamily	7.60	\$22,397.8	\$2,948.9	\$0.0		\$10.80
Income Eligible Residential Subtotal	4.51	\$42,074.9	\$9,320.7	\$0.0	\$0.0	\$18.95
Large Commercial & Industrial						
Large Commercial New Construction	6.21	\$21,302.6	\$3,186.6	\$243.0		\$4.35
Large Commercial Retrofit	6.51	\$48,858.8	\$4,696.3	\$2,810.2		\$5.63
Small Business Direct Install	5.10	\$2,180.8	\$355.9	\$71.3		\$4.66
Commercial & Industrial Multifamily	7.28	\$7,583.0	\$957.3	\$84.0		\$7.94
Commercial Pilots			\$215.8			
Community Based Initiatives - C&I			\$28.3			
Finance Costs			\$0.0			
Commercial Workforce Development			\$67.5			
Commercial & Industrial Subtotal	5.83	\$79,925.2	\$9,507.6	\$3,208.6	\$1,000.0	\$5.42
Regulatory						
EERMC			\$259.5			
OER			\$732.9			
Rhode Island Infrastructure Bank			\$1,265.0			
Regulatory Subtotal			\$2,257.5			
Grand Total	3.64	\$165,874.1	\$36,061.3	\$8,562.7	\$1,000.0	\$10.99

Notes:

- (1) RI Test B/C Test = Total Benefits from Table G-6 including Economic Benefits / Program Implementation Expenses from Table G-3
Also includes effects of free-ridership and spillover.
- (2) For Implementation Expenses derivation, see Table G-3.

**Table G-5A - Compliance Filing
National Grid
Calculation of 2022 Program Year Cost-Effectiveness with TRC Test
All Dollar Values in (\$000)**

	TRC Benefit/ Cost	Total Benefit	Program Implementation Expenses	Customer Contribution	Performance Incentive	\$/Lifetime MMBtu
Non-Income Eligible Residential						
Energy Star® HVAC	0.60	\$4,561.9	\$3,732.5	\$3,892.9		\$17.3
EnergyWise	0.82	\$7,623.0	\$8,645.9	\$670.2		\$19.5
EnergyWise MultiFamily	2.91	\$5,329.4	\$1,489.2	\$344.0		\$12.5
Home Energy Reports	1.70	\$749.9	\$441.8	\$0.0		\$4.7
Residential New Construction	1.18	\$1,133.3	\$513.2	\$447.0		\$14.8
Comprehensive Marketing - Residential			\$68.0			
Community Based Initiatives - Residential			\$85.0			
Residential Pilots			\$0.0			
Residential Workforce Development			\$0.0			
Non-Income Eligible Residential Subtotal	0.95	\$19,397.5	\$14,975.5	\$5,354.1	\$0.0	\$16.6
Income Eligible Residential						
Single Family - Income Eligible Services	1.81	\$11,530.4	\$6,371.8	\$0.0		\$29.1
Income Eligible Multifamily	5.37	\$15,840.6	\$2,948.9	\$0.0		\$10.8
Income Eligible Workforce Development			\$0.0			\$0.0
Income Eligible Residential Subtotal	2.94	\$27,371.0	\$9,320.7	\$0.0	\$0.0	\$18.9
Large Commercial & Industrial						
Large Commercial New Construction	3.84	\$13,162.1	\$3,186.6	\$243.0		\$4.3
Large Commercial Retrofit	3.73	\$27,966.9	\$4,696.3	\$2,810.2		\$5.6
Small Business Direct Install	2.36	\$1,009.5	\$355.9	\$71.3		\$4.7
Commercial & Industrial Multifamily	4.92	\$5,125.3	\$957.3	\$84.0		\$7.9
Commercial Pilots			\$215.8	\$0.0		
Community Based Initiatives - C&I			\$28.3	\$0.0		
Finance Costs			\$0.0	\$0.0		
Commercial Workforce Development			\$67.5	\$0.0		
Commercial & Industrial Subtotal	3.45	\$47,263.8	\$9,507.6	\$3,208.6	\$1,000.0	\$5.4
Regulatory						
EERMC			\$259.5			
OER			\$732.9			
Rhode Island Infrastructure Bank			\$1,265.0			
Regulatory Subtotal			\$992.5			
Grand Total	2.12	\$94,032.3	\$34,796.3	\$8,562.7	\$1,000.0	\$11.0

Notes:

(1) TRC B/C Test = (Energy + Capacity + Resource Benefits) / (Program Implementation + Customer Contribution + Performance Incentive)

Also includes effects of free-ridership and spillover.

(2) For Implementation Expenses derivation, see Table G-3.

Table G-6 - Compliance Filing
National Grid
Summary of 2022 Benefits by Program

	Benefits (\$000)																			
	Total	Total (Economic Excluded)	Natural Gas Benefits		Electric Capacity					Electric Energy				Non-Electric and Non-Gas			Societal			
			Natural Gas	Natural Gas DRIPe	Summer Generation	Capacity DRIPe	Trans	Dist	Reliability	Winter		Summer		Electric Energy DRIPe	Oil	Other Resource	Non Resource	Carbon	NOx	Economic
										Winter Peak	Winter Off Peak	Summer Peak	Summer Off Peak							
Non-Income Eligible Residential																				
EnergyWise	\$19,827	\$10,489	\$4,123	\$33	\$58	\$101	\$75	\$74	\$5	\$47	\$53	\$48	\$41	\$35	\$0	\$51	\$2,878	\$2,554	\$312	\$9,338
Energy Star® HVAC	\$11,267	\$7,646	\$3,725	\$42	\$7	\$20	\$10	\$10	\$1	-\$7	-\$7	\$4	\$4	-\$2	\$0	\$190	\$563	\$2,792	\$292	\$3,620
EnergyWise Multifamily	\$8,849	\$6,317	\$1,265	\$13	\$7	\$17	\$10	\$10	\$1	\$1	\$1	\$6	\$5	\$3	\$0	\$43	\$3,948	\$891	\$97	\$2,532
Home Energy Reports	\$2,207	\$1,712	\$725	\$25	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$898	\$64	\$495
Residential New Construction	\$1,725	\$1,551	\$564	\$6	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$7	\$557	\$374	\$43	\$174
Non-Income Eligible Residential SUBTOTAL	\$43,874	\$27,715	\$10,402	\$120	\$73	\$138	\$95	\$94	\$7	\$41	\$47	\$57	\$50	\$36	\$0	\$291	\$7,946	\$7,510	\$807	\$16,159
Income Eligible Residential																				
Single Family - Income Eligible Services	\$19,677	\$12,987	\$1,923	\$18	\$25	\$49	\$33	\$32	\$2	\$29	\$34	\$19	\$17	\$24	\$0	\$0	\$9,323	\$1,311	\$146	\$6,690
Income Eligible Multifamily	\$22,398	\$17,620	\$2,374	\$24	\$4	\$13	\$6	\$6	\$1	\$1	\$0	\$3	\$3	\$2	\$0	\$52	\$13,352	\$1,600	\$180	\$4,777
Income Eligible Residential SUBTOTAL	\$42,075	\$30,607	\$4,298	\$42	\$29	\$63	\$38	\$38	\$3	\$30	\$35	\$22	\$20	\$26	\$0	\$52	\$22,675	\$2,911	\$326	\$11,468
Commercial & Industrial																				
Large Commercial New Construction	\$21,303	\$18,945	\$5,733	\$67	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$47	\$7,314	\$5,221	\$561	\$2,358
Large Commercial Retrofit	\$48,859	\$38,997	\$10,462	\$210	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$39	\$17,256	\$10,071	\$958	\$9,862
Small Business Direct Install	\$2,181	\$1,686	\$709	\$9	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$291	\$0	\$611	\$65	\$495
Commercial & Industrial Multifamily	\$7,583	\$6,099	\$1,069	\$14	\$4	\$13	\$6	\$6	\$1	\$1	\$0	\$3	\$2	\$2	\$0	\$26	\$3,979	\$881	\$93	\$1,484
Commercial & Industrial SUBTOTAL	\$79,925	\$65,726	\$17,974	\$300	\$4	\$13	\$6	\$6	\$1	\$1	\$0	\$3	\$2	\$2	\$0	\$404	\$28,549	\$16,785	\$1,678	\$14,199
Grand Total	\$165,874	\$124,049	\$32,674	\$462	\$106	\$214	\$139	\$138	\$11	\$71	\$82	\$83	\$72	\$64	\$0	\$747	\$59,170	\$27,205	\$2,811	\$41,825

**Table G-6A - Compliance Filing
National Grid
Summary of 2022 Impacts by Program**

	Gas Saved (MMBtu)	
	Annual	Lifetime
Non-Income Eligible Residential		
EnergyWise	20,850	478,550
Energy Star® HVAC	26,740	439,717
EnergyWise Multifamily	8,279	147,064
Home Energy Reports	93,548	93,548
Residential New Construction	3,610	64,899
Non-Income Eligible Residential SUBTOTAL	153,027	1,223,778
Income Eligible Residential		
Single Family - Income Eligible Services	10,942	218,847
Income Eligible Multifamily	14,700	273,085
Income Eligible Residential SUBTOTAL	25,642	491,932
Commercial & Industrial		
Large Commercial New Construction	52,956	788,763
Large Commercial Retrofit	142,888	1,332,508
Small Business Direct Install	6,113	91,700
Commercial & Industrial Multifamily	8,803	131,220
Commercial & Industrial SUBTOTAL	210,760	2,344,192
Grand Total	389,430	4,059,902

Notes:

1) Lifetime savings are equal to annual savings multiplied by the expected life of measures expected to be installed in each program.

**Table G-7 - Compliance Filing
National Grid
Comparison of 2022 and 2021 Goals**

	Proposed 2022 Goal	Proposed 2022 Tracking		Approved 2021		Difference	
	Lifetime Energy Savings (MMBtu Natural Gas)	Annual Energy Savings (MMBtu Natural Gas)	Planned Unique Participants	Lifetime Energy Savings (MMBtu Natural Gas)	Annual Energy Savings (MMBtu Natural Gas)	Lifetime Energy Savings (MMBtu Natural Gas)	Annual Energy Savings (MMBtu Natural Gas)
Non-Income Eligible Residential							
EnergyWise	478,550	20,850	1,761	476,550	20,869	2,001	-20
Energy Star® HVAC	439,717	26,740	3,062	667,485	38,345	-227,768	-11,604
EnergyWise Multifamily	147,064	8,279	4,000	148,675	8,633	-1,611	-354
Home Energy Reports	93,548	93,548	152,324	93,548	93,548	0	0
Residential New Construction	64,899	3,610	289	85,272	4,445	-20,372	-835
Non-Income Eligible Residential SUBTOTAL	1,223,778	153,027	161,436	1,471,530	165,840	-247,751	-12,813
Income Eligible Residential							
Single Family - Income Eligible Services	218,847	10,942	1,098	201,104	10,055	17,743	887
Income Eligible Multifamily	273,085	14,700	3,150	315,545	14,399	-42,460	301
Income Eligible Residential SUBTOTAL	491,932	25,642	4,248	516,649	24,454	-24,717	1,188
Commercial & Industrial							
Large Commercial New Construction	788,763	52,956	94	437,398	27,631	351,365	25,325
Large Commercial Retrofit	1,332,508	142,888	62	1,455,776	187,283	-123,268	-44,395
Small Business Direct Install	91,700	6,113	170	48,861	4,886	42,838	1,227
Commercial & Industrial Multifamily	131,220	8,803	729	141,869	9,444	-10,649	-641
Commercial & Industrial SUBTOTAL	2,344,192	210,760	1,056	2,083,905	229,243	260,286	-18,483
TOTAL	4,059,902	389,430	166,740	4,072,084	419,537	-12,182	-30,108

Notes:

- (1) Participants can participate in more than one program, for example Home Energy Reports and EnergyWise.
- (2) Planned 2022 participation takes into account net-to-gross and estimates unique participation by taking into account 2021 unique customer accounts to savings ratios. Therefore the number of planned measures may be more than the planned participants. For measure counts please view the widgets tables at the end of the Residential and C&I text sections. Table G-7 no longer includes a comparison to the previous year's participation. Due to the way unique participation is calculated it is not possible to compare year-over-year results.

Table G-8A - Compliance Filing
National Grid
2022 Gas PIM Benefits, Allocations, and Categorization (\$000)

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)
	Natural Gas Benefits		Utility NEIs	Electric Capacity					Electric Energy					Non-Electric and Non-Gas			Societal		
	Natural Gas	Natural Gas DRIPE	Utility NEIs	Summer Generation	Capacity DRIPE	Trans	Dist	Reliability	Winter		Summer		Electric Energy DRIPE	Oil	Other Resource	Non Resource	Carbon	NOx	Economic
									Winter Peak	Winter Off Peak	Summer Peak	Summer Off Peak							
Non-Income Eligible Residential																			
EnergyWise	\$4,123	\$33	\$0	\$58	\$101	\$75	\$74	\$5	\$47	\$53	\$48	\$41	\$35	\$0	\$51	\$2,878	\$2,554	\$312	\$9,338
Energy Star® HVAC	\$3,725	\$42	\$0	\$7	\$20	\$10	\$10	\$1	-\$7	-\$7	\$4	\$4	-\$2	\$0	\$190	\$563	\$2,792	\$292	\$3,620
EnergyWise Multifamily	\$1,265	\$13	\$0	\$7	\$17	\$10	\$10	\$1	\$1	\$1	\$6	\$5	\$3	\$0	\$43	\$3,948	\$891	\$97	\$2,532
Home Energy Reports	\$725	\$25	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$898	\$64	\$495	
Residential New Construction	\$564	\$6	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$7	\$557	\$374	\$43	\$174
Non-Income Eligible Residential SUBTOTAL	\$10,402	\$120	\$0	\$73	\$138	\$95	\$94	\$7	\$41	\$47	\$57	\$50	\$36	\$0	\$291	\$7,946	\$7,510	\$807	\$16,159
Income Eligible Residential																			
Single Family - Income Eligible Services	\$1,923	\$18	\$109	\$25	\$49	\$33	\$32	\$2	\$29	\$34	\$19	\$17	\$24	\$0	\$0	\$9,214	\$1,311	\$146	\$6,690
Income Eligible Multifamily	\$2,374	\$24	\$87	\$4	\$13	\$6	\$6	\$1	\$1	\$0	\$3	\$3	\$2	\$0	\$52	\$13,265	\$1,600	\$180	\$4,777
Income Eligible Residential SUBTOTAL	\$4,298	\$42	\$196	\$29	\$63	\$38	\$38	\$3	\$30	\$35	\$22	\$20	\$26	\$0	\$52	\$22,479	\$2,911	\$326	\$11,468
Commercial & Industrial																			
Large Commercial New Construction	\$5,733	\$67	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$47	\$7,314	\$5,221	\$561	\$2,358
Large Commercial Retrofit	\$10,462	\$210	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$39	\$17,256	\$10,071	\$958	\$9,862
Small Business Direct Install	\$709	\$9	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$291	\$0	\$611	\$65	\$495
Commercial & Industrial Multifamily	\$1,069	\$14	\$0	\$4	\$13	\$6	\$6	\$1	\$1	\$0	\$3	\$2	\$2	\$0	\$26	\$3,979	\$881	\$93	\$1,484
Commercial & Industrial SUBTOTAL	\$17,974	\$300	\$0	\$4	\$13	\$6	\$6	\$1	\$1	\$0	\$3	\$2	\$2	\$0	\$404	\$28,549	\$16,785	\$1,678	\$14,199
Grand Total	\$32,674	\$462	\$196	\$106	\$214	\$139	\$138	\$11	\$71	\$82	\$83	\$72	\$64	\$0	\$747	\$58,975	\$27,205	\$2,811	\$41,825
Included in PIM? (Y/N)	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	N	N	N	N
Percent Application in PIM	100%	100%	100%	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	0%	0%	0%	0%
Category	Gas Utility System Benefits	Gas Utility System Benefits	Gas Utility System Benefits	Resource Benefits	Resource Benefits	Resource Benefits	Resource Benefits	Resource Benefits	Resource Benefits	Resource Benefits	Resource Benefits	Resource Benefits	Resource Benefits	Resource Benefits	Resource Benefits	NA	NA	NA	NA

Notes
From 2022 Benefit-Cost Model, reflects benefits in Table G-6

**Table G-8B - Compliance Filing
National Grid
2022 Gas PIM Costs**

	(1)	(2)	(3)
	Costs (\$)		
	Eligible Spending Budget from Table G-3	Regulatory Costs	Total Costs for PIM Calculations
Non-Income Eligible Residential SUBTOTAL	\$14,875,033	\$752,487	\$15,627,520
Income Eligible Residential SUBTOTAL	\$9,317,592	\$752,487	\$10,070,079
Commercial & Industrial SUBTOTAL	\$9,188,855	\$752,487	\$9,941,342
Included in PIM? (Y/N)	Y	Y	Y

Notes

Source is Table G-2 and G-3. Regulatory costs allocated equally to each sector.

Table G-8C - Compliance Filing
National Grid
2022 Gas PIM and SQA

Sector PI = min(Payout Cap(i) , [Actual Net Benefits* Design Payout Rate(g) * Payout Rate Adjustment(i)])

Sector	Planned Eligible Benefits		Planned Eligible Costs	Planned Eligible Net Benefits (4)	Design Performance Achievement	Design Performance Payout	Design Payout Rate	Design Payout Rate Thresholds	Payout Rate Adjustments	Payout Cap	Service Quality Metric
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)
	100% Gas Utility System Benefits	50% Resource Benefits	Eligible Spending Budget + Regulatory Costs	=(a)+(b)-(c)	Net benefits at which design incentive pool is achieved	Set by PUC	=(f)/(e)	Achievement levels at which the Payout Rate Adjustments in (i) will be applied—Set by PUC	Factor to adjust Design Payout Rate for if final program achievement fall within the ranges in (h)—Set by PUC	=1.25*(f)	Yes if (d) ≤ 0; No if (d) >0
										Cap on sector payout regardless of achievement in sector	See Service Quality Table
Non-Income Eligible Residential	\$10,522,162	\$464,590	\$15,627,520	-\$4,640,768	\$2,000,000	\$500,000	25.00%	a. Achievement < 25% b. 25% ≤ Achievement < 50% c. 50% ≤ Achievement < 75% d. 75% ≤ Achievement • Spending > Planned Eligible Costs	a. 0.0 b. Achievement/100 + 0.1 c. Achievement/100 + 0.25 d. 0.0 • See Boundary Rules	\$625,000	Yes
Income Eligible Residential	\$4,535,473	\$178,040	\$10,070,079	-\$5,356,566	\$2,000,000	\$500,000	25.00%			\$625,000	Yes
Commercial & Industrial	\$18,273,327	\$220,617	\$9,941,342	\$8,552,602	\$8,552,602	\$1,000,000	11.69%			\$1,250,000	No

Sector SQA = Maximum Service Adjustment(e) * Service Achievement Scaling Factor(g)

	Planned Eligible Benefits		Planned Eligible Costs	Design Service Achievement	Maximum Service Adjustment	Service Adjustment Thresholds	Service Achievement Scaling Factors	Achievement Cost Adjustment
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
	100% Gas Utility System Benefits	50% Resource Benefits	Eligible Spending Budget + Regulatory Costs	=(a)+(b)	Maximum downward adjustment to earned incentive	Adjusted Achievement levels at which the Service Adjustments in (e) will be applied; adjustment is calculated in (h)	Factor to scale program achievement that fall within the ranges in (f)	Actual-cost-based adjustment factor applied to achievement. Result is if the difference between achievement and cost variances are greater than 5%, the Actual Achievement will be adjusted for use in
Non-Income Eligible Residential	\$10,522,162	\$464,590	\$15,627,520	\$10,986,752	\$290,063	a. Adjusted Achievement < 65% b. 65% ≤ Adjusted Achievement < 95% c. 95% ≤ Adjusted Achievement	a. 0.0 b. 0.95-Adjusted Achievement/30 c. 0.0	Performance Variance = "Actual Benefits" / "Design Achievement" - "Spending" / "Planned Eligible Cost"
Income Eligible Residential	\$4,535,473	\$178,040	\$10,070,079	\$4,713,513	\$171,275			If the absolute value (Performance Variance) ≤ 0.05, Then Adjusted Achievement = Actual Achievement Else Adjusted Achievement = Actual Achievement * (1+ Performance Variance)
Commercial & Industrial	\$18,273,327	\$220,617	\$9,941,342	N/A	N/A			

**Table G-9 - Compliance Filing
National Grid
Revolving Loan Fund Projections**

Large C&I Revolving Loan Fund

(1)	Total Loan Fund Deposits Through 2021	\$ 3,590,440
(2)	Current Loan Fund Balance	\$ 2,398,955
(3)	Projected Loans by Year End 2021	\$ 587,000
(4)	Projected Repayments by Year End 2021	\$ 213,986
(5)	Projected Year End Loan Fund Balance 2021	\$ 2,025,941
(6)	2022 Fund Injection	\$ -
(7)	Projected Loan Fund Balance, January 2022	\$ 2,025,941
(8)	Projected Repayments throughout 2022	\$ 402,925
(9)	Estimated Loans in 2022	\$ 1,200,000
(10)	Projected Year End Loan Fund Balance 2022	\$ 1,228,866

Notes

- 1 Funding injections since loan funds began. Net of any adjustments.
- 2 Current Loan Fund Balance is through July 2021
- 3 Projected Loans by Year End 2021 is estimated based on current commitments
Projected Repayments by Year End 2021 is estimated based on projected loans
- 4 by year end and repayment schedules
- 5 Equal to (2) - (3) + (4)
- 6 Fund Injection, as budgeted on G-2
- 7 Equal to (5) + (6)
- 8 Assumption based on average repayments over 12 months; repayments accumulate over time and may vary widely.

**Table G-10 - Compliance Filing
National Grid
Rhode Island Gas Energy Efficiency 2007 - 2022
\$(000)**

Gas	2007 ⁽⁴⁾	2008	2009	2010	2011 ⁽⁵⁾	2012	2013 ⁽⁶⁾	2014	2015	2016	2017	2018	2019	2020 ⁽⁷⁾	2021 ⁽⁸⁾	2022 ⁽⁹⁾
Energy Efficiency Budget (\$Million) ⁽¹⁾	-	\$7.3	\$7.6	\$4.8	\$7.3	\$13.7	\$19.5	\$23.5	\$24.5	\$27.7	\$29.7	\$28.1	\$31.6	\$34.3	\$35.0	\$36.9
Spending Budget (\$Million) ⁽²⁾	-	\$6.6	\$6.1	\$4.5	\$6.2	\$12.9	\$17.9	\$21.8	\$22.4	\$25.0	\$27.8	\$26.2	\$29.2	\$31.6	\$32.4	\$33.4
Actual Expenditures (\$Million) ⁽³⁾	-	\$7.4	\$6.3	\$5.5	\$4.9	\$13.3	\$19.6	\$21.5	\$21.5	\$24.6	\$29.1	\$28.8	\$29.5	\$24.6		
Incentive Percentage ⁽¹²⁾	-	4.4%	4.4%	4.4%	4.4%	4.4%	5.0%	5.0%	5.0%	5.0%	5.0%	5.0%	5.0%	5.0%	NA	NA
Target Incentive	-	\$288,734	\$266,980	\$199,743	\$274,460	\$570,382	\$898,285	\$1,089,700	\$1,119,800	\$1,251,654	\$1,387,550	\$1,309,076	\$1,460,570	\$1,578,601	\$1,700,000	\$1,000,000
Earned Incentive	-	\$288,734	\$262,121	\$231,310	\$239,863	\$586,036	\$968,229	\$1,362,108	\$1,387,079	\$1,496,869	\$1,633,531	\$1,541,255	\$1,580,119	\$347,732		
Annual MMBtu Energy Savings Goal Achieved (%)		109%	139%	127%	117%	99%	109%	124%	111%	106%	113%	120%	104%	71%		
System Benefits Charge (\$/therm) - all non-exempt customers ⁽¹¹⁾	\$0.0071	\$0.0107	\$0.0150	\$0.0150	\$0.0411	\$0.0384	\$0.0417	-	-	-	-	-	-	-	-	-
Residential System Benefits Charge (\$/therm)	-	-	-	-	-	-	-	\$0.0600	\$0.0781	\$0.0748	\$0.0888	\$0.0869	\$0.0715	\$0.1011	\$0.0871	\$0.1271
C&I System Benefits Charge (\$/therm)	-	-	-	-	-	-	-	\$0.0492	\$0.0637	\$0.0487	\$0.0726	\$0.0671	\$0.0420	\$0.0704	\$0.0596	\$0.0846
Annual Cost to 846 Therm/year Residential Customer w/o tax ⁽⁹⁾	\$6.04	\$9.05	\$12.69	\$12.69	\$18.28	\$32.49	\$35.28	\$50.76	\$66.07	\$63.28	\$75.12	\$73.52	\$60.49	\$85.53	\$73.69	\$107.53
Annual Cost to 846 Therm/year Residential Customer w/tax ⁽¹⁰⁾	\$6.23	\$9.33	\$13.08	\$13.08	\$18.85	\$33.49	\$36.37	\$52.33	\$68.11	\$65.24	\$77.44	\$75.79	\$62.36	\$88.18	\$75.97	\$110.86

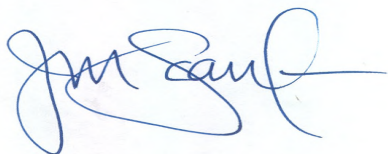
Notes:

- (1) Energy Efficiency Budget includes total expenditures and commitments. Includes all demand side management program-related expenses, including rebates, administration and general expenses, evaluation, commitments for future years and Company incentive.
- (2) Prior to 2017, Spending Budget Eligible for Shareholder Incentive includes: Implementation, Administration, General, and Evaluation Expenses; excludes EERMC and OER Costs, Commitments, Copays, and Outside Finance Costs. Beginning in 2017, Outside Finance Costs were also included. Beginning in 2018 Pilot expenses were also excluded. Beginning in 2019 ConnectedSolutions expenses and assessment were also excluded.
- (3) Actual Expenditures is actual spend during calendar year. Includes expenditures and commitments. Includes all demand side management program-related expenses, including rebates, administration and general expenses, evaluation, commitments for future years and Company incentive.
- (4) Gas programs began during July 2007 and were not reported on separately that year since programs were still in development. The 2007 gas programs are included in 2008 reporting. Systems Benefit Charge shown for 2007 is the weighted average of \$0.063 per decatherm from January 1, 2007 - June 30, 2007 and \$0.107 per decatherm from July 1, 2007 through December 31, 2008.
- (5) On July 25, 2011 the Commission ordered that National Grid could increase the gas System Benefits Charge from \$0.15 to \$0.411 per decatherm for the period of August 1, 2011 through December 31, 2011. Annual cost represents 7 months usage (632 therms) at \$0.015 per therm and 5 months usage (214 therms) at \$0.0411 per therm.
- (6) In the Company's gas and electric rate cases in docket 4323, the PUC approved the uncollectibles gross-up in the electric EE Program Charge effective February 1, 2013, and a new rate applicable to the gross-up of the gas EE Program Charge, effective February 1, 2013.
- (7) 2021 values are planned.
- (8) 2022 values are proposed.
- (9) Reflects the annual cost excluding Gross Earnings Tax.
- (10) Reflects the annual cost including Gross Earnings Tax.
- (11) The Gas EE Program Charge was uniform for all customers until 2014, at which time the Company proposed and the PUC approved individual factors for the residential and C&I sectors.
- (12) Incentive percentage not applicable for 2022 due to new performance incentive mechanism developed for the 2022 Annual Plan. See Section 11 of the Main Text of the 2022 Annual Plan for additional details.

Certificate of Service

I hereby certify that a copy of the cover letter and any materials accompanying this certificate was electronically transmitted to the individuals listed below.

The paper copies of this filing are being hand delivered to the Rhode Island Public Utilities Commission and to the Rhode Island Division of Public Utilities and Carriers.



Joanne M. Scanlon

January 26, 2022
Date

**Docket No. 5189 - National Grid – 2022 Annual Energy Efficiency Program
Service list updated 11/29/2021**

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